Supplementary Table S2. Pairwise equivalence tests of impingement free abduction angles with cup rotation ranging from -35 to +35º, with 0º as reference. Differences < 5º were considered equivalent

Y	Hip_Flexion	cup rotation 2	-cup rotation 2	Difference	Lower Bound t Ratio	Lower Bound p-Value	Lower Bound Assessment (α=	Upper Bound t Ratio	Upper Bound p-Value	Max p-Value	Lower 90%	Upper 90%	ound assessment (α=	ssessment (α=0.003	Assessment (α=0.05)
Abduction	50	-5	0	-2.368164056	2.701683189	0.004324077	Not Equivalent	-7.563710426	5.8004E-11	0.004324077	-3.991983406	-0.744344706	Equivalent	Not Equivalent	Equivalent
Abduction	50	-10	0	-4.101562494	0.922281464	0.17977488	Not Equivalent	-9.343112152	3.11524E-14	0.17977488	-5.725381844	-2.477743144	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	-15	0	-5.859374996	-0.88218226	0.809651183	Not Equivalent	-11.14757588	1.79824E-17	0.809651183	-7.483194346	-4.235555646	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	-20	0	-7.12890625	-2.185406063	0.983896274	Not Equivalent	-12.45079968	1.01291E-19	0.983896274	-8.7527256	-5.5050869	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	-25	0	-8.276367183	-3.363319877	0.999374046	Not Equivalent	-13.62871349	1.12042E-21	0.999374046	-9.900186534	-6.652547833	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	-30	0	-9.301757802	-4.415923708	0.999982104	Not Equivalent	-14.68131732	2.32259E-23	0.999982104	-10.92557715	-7.677938452	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	-35	0	-9.936523417	-5.067535597	0.999998426	Not Equivalent	-15.33292921	2.26279E-24	0.999998426	-11.56034277	-8.312704066	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	0	5	-2.441406263	2.626497182	0.005294831	Not Equivalent	-7.638896434	4.21958E-11	0.005294831	-4.065225613	-0.817586912	Equivalent	Not Equivalent	Equivalent
Abduction	50	0	10	-5.395507871	-0.406004397	0.657011083	Not Equivalent	-10.67139801	1.2504E-16	0.657011083	-7.019327221	-3.771688521	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	0	15	-8.154296881	-3.238009907	0.999079318	Not Equivalent	-13.50340352	1.79423E-21	0.999079318	-9.778116231	-6.530477531	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	0	20	-11.49902348	-6.671503409	0.999999998	Not Equivalent	-16.93689702	9.201E-27	0.999999998	-13.12284283	-9.875204125	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	0	25	-14.57519532	-9.829314889	1	Not Equivalent	-20.09470851	4.3972E-31	1	-16.19901467	-12.95137597	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	0	30	-17.43164063	-12.76156844	1	Not Equivalent	-23.02696205	1.09642E-34	1	-19.05545998	-15.80782128	Equivalent	Not Equivalent	Not Equivalent
Abduction	50	0	35	-20.29052735	-15.69632818	1	Not Equivalent	-25.9617218	5.89924E-38	1	-21.9143467	-18.666708	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	-5	0	-2.880859381	2.59999002	0.005681746	Not Equivalent	-9.669087346	7.94122E-15	0.005681746	-4.23949005	-1.522228712	Equivalent	Not Equivalent	Equivalent
Abduction	55	-10	0	-4.956054694	0.053916836	0.478577503	Not Equivalent	-12.21516053	2.54603E-19	0.478577503	-6.314685363	-3.597424025	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	-15	0	-6.787109375	-2.192618318	0.984169551	Not Equivalent	-14.46169568	5.15382E-23	0.984169551	-8.145740044	-5.428478706	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	-20	0	-8.374023438	-4.139615459	0.999952195	Not Equivalent	-16.40869283	5.44364E-26	0.999952195	-9.732654107	-7.015392768	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	-25	0	-9.741210942	-5.817028385	0.999999918	Not Equivalent	-18.08610575	2.15922E-28	0.999999918	-11.09984161	-8.382580273	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	-30	0	-10.91308593	-7.254810876	1	Not Equivalent	-19.52388824	2.44586E-30	1	-12.2717166	-9.554455262	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	-35	0	-11.74316408	-8.273240173	1	Not Equivalent	-20.54231754	1.17274E-31	1	-13.10179474	-10.38453341	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	0	5	-2.587890625	2.959435654	0.002101457	Equivalent	-9.309641713	3.58596E-14	0.002101457	-3.946521294	-1.229259956	Equivalent	Equivalent	Equivalent
Abduction	55	0	10	-5.541992108	-0.664974311	0.745874053	Not Equivalent	-12.93405168	1.56277E-20	0.745874053	-6.900622777	-4.183361439	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	0	15	-9.106445306	-5.038229516	0.999998239	Not Equivalent	-17.30730688	2.69884E-27	0.999998239	-10.46507598	-7.747814637	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	0	20	-11.62109373	-8.123471126	1	Not Equivalent	-20.39254849	1.82074E-31	1	-12.9797244	-10.26246306	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	0	25	-14.69726562	-11.89765021	1	Not Equivalent	-24.16672758	5.40963E-36	1	-16.05589629	-13.33863495	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	0	30	-17.65136718	-15.52206027	1	Not Equivalent	-27.79113764	7.60928E-40	1	-19.00999785	-16.29273651	Equivalent	Not Equivalent	Not Equivalent
Abduction	55	0	35	-20.18961588	-18.63625724	1	Not Equivalent	-30.90533461	7.81181E-43	1	-21.54824655	-18.83098521	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	-5	0	-2.539062498	3.530386948	0.000369236	Equivalent	-10.81531238	6.94148E-17	0.000369236	-3.701023613	-1.377101383	Equivalent	Equivalent	Equivalent
Abduction	60	-10	0	-5.322265623	-0.462312573	0.677354508	Not Equivalent	-14.8080119	1.47061E-23	0.677354508	-6.484226738	-4.160304508	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	-15	0	-7.495117179	-3.579420085	0.999684646	Not Equivalent	-17.92511941	3.61831E-28	0.999684646	-8.657078294	-6.333156064	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	-20	0	-9.423828121	-6.346290811	0.999999991	Not Equivalent	-20.69199014	7.5732E-32	0.999999991	-10.58578924	-8.261867006	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	-25	0	-10.86425781	-8.412687937	1	Not Equivalent	-22.75838727	2.26565E-34	1	-12.02621893	-9.702296697	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	-30	0	-12.109375	-10.19889561	1	Not Equivalent	-24.54459495	2.04458E-36	1	-13.27133611	-10.94741388	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	-35	0	-13.20800782	-11.77496123	1	Not Equivalent	-26.12066056	4.00285E-38	1	-14.36996894	-12.04604671	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	0	5	-3.051757808	2.79488967	0.003347069	Equivalent	-11.55080966	3.5469E-18	0.003347069	-4.213718923	-1.889796693	Equivalent	Equivalent	Equivalent
Abduction	60	0	10	-6.445312533	-2.073401904	0.979091644	Not Equivalent	-16.41910123	5.25452E-26	0.979091644	-7.607273648	-5.283351418	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	0	15	-9.008789065	-5.75088826	0.999999893	Not Equivalent	-20.09658759	4.37268E-31	0.999999893	-10.17075018	-7.846827949	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	0	20	-12.20703122	-10.3389903	1	Not Equivalent	-24.68468963	1.42972E-36	1	-13.36899234	-11.04507011	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	0	25	-14.84375	-14.12154778	1	Not Equivalent	-28.46724711	1.61877E-40	1	-16.00571112	-13.68178889	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	0	30	-17.33398438	-17.69396314	1	Not Equivalent	-32.03966247	7.38412E-44	1	-18.49594549	-16.17202326	Equivalent	Not Equivalent	Not Equivalent
Abduction	60	0	35	-19.54833985	-20.87061092	1	Not Equivalent	-35.21631025	1.44591E-46	1	-20.71030096	-18.38637873	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	-5	0	-3.34472656	2.649391695	0.004980085	Not Equivalent	-13.35637286	3.12556E-21	0.004980085	-4.386172893	-2.303280228	Equivalent	Not Equivalent	Equivalent
Abduction	65	-10	0	-5.932617185	-1.492725109	0.929998603	Not Equivalent	-17.49848967	1.44224E-27	0.929998603	-6.974063518	-4.891170853	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	-15	0	-8.691406246	-5.908377926	0.999999943	Not Equivalent	-21.91414248	2.31673E-33	0.999999943	-9.732852578	-7.649959914	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	-20	0	-10.64453124	-9.034503809	1	Not Equivalent	-25.04026837	5.80868E-37	1	-11.68597757	-9.60308491	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	-25	0	-12.45117187	-11.92617026	1	Not Equivalent	-27.93193481	5.49853E-40	1	-13.4926182	-11.40972553	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	-30	0	-13.74511718	-13.99722866	1	Not Equivalent	-30.00299322	5.3853E-42	1	-14.78656351	-12.70367085	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	-35	0	-14.86816407	-15.79475107	1	Not Equivalent	-31.80051562	1.20677E-43	1	-15.9096104	-13.82671773	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	0	5	-2.978515621	3.235540303	0.000927627	Equivalent	-12.77022425	2.93532E-20	0.000927627	-4.019961953	-1.937069289	Equivalent	Equivalent	Equivalent
Abduction	65	0	10	-5.688476637	-1.101959496	0.86287311	Not Equivalent	-17.10772405	5.21546E-27	0.86287311	-6.72992297	-4.647030305	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	0	15	-8.95996094	-6.338220245	0.99999999	Not Equivalent	-22.3439848	7.03377E-34	0.99999999	-10.00140727	-7.918514607	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	0	20	-11.64550778	-10.63664329	1	Not Equivalent	-26.64240785	1.13582E-38	1	-12.68695412	-10.60406145	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	0	25	-13.89160156	-14.23168812	1	Not Equivalent	-30.23745267	3.24551E-42	1	-14.9330479	-12.85015523	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	0	30	-16.015625	-17.63135002	1	Not Equivalent	-33.63711458	3.00701E-45	1	-17.05707133	-14.97417867	Equivalent	Not Equivalent	Not Equivalent
Abduction	65	0	35	-17.93375651	-20.70146616	1	Not Equivalent	-36.70723071	9.19324E-48	1	-18.97520284	-16.89231018	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	-5	0	-2.587890631	3.802477516	0.0001515	Equivalent	-11.96163984	6.91458E-19	0.0001515	-3.645301231	-1.530480031	Equivalent	Equivalent	Equivalent
Abduction	70	-10	0	-6.103515631	-1.739594991	0.956837224	Not Equivalent	-17.50371234	1.41785E-27	0.956837224	-7.160926231	-5.046105031	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	-15	0	-8.59375	-5.665229674	0.999999849	Not Equivalent	-21.42934703	9.07725E-33	0.999999849	-9.6511606	-7.5363394	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	-20	0	-11.25488282	-9.860270675	1	Not Equivalent	-25.62438803	1.35228E-37	1	-12.31229342	-10.19747222	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	-25	0	-13.03710938	-12.66979355	1	Not Equivalent	-28.4339109	1.74586E-40	1	-14.09451998	-11.97969878	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	-30	0	-14.69726564	-15.28688335	1	Not Equivalent	-31.05100071	5.74625E-43	1	-15.75467624	-13.63985504	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	-35	0	-15.8935547	-17.17272746	1	Not Equivalent	-32.93684481	1.20288E-44	1	-16.9509653	-14.8361441	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	0	5	-3.100585925	2.994258638	0.001900262	Equivalent	-12.76985871	2.93946E-20	0.001900262	-4.157996525	-2.043175325	Equivalent	Equivalent	Equivalent
Abduction	70	0	10	-6.079101525	-1.701108308	0.953319414	Not Equivalent	-17.46522566	1.60787E-27	0.953319414	-7.136512125	-5.021690925	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	0	15	-8.886718744	-6.127069039	0.999999977	Not Equivalent	-21.89118639	2.47022E-33	0.999999977	-9.944129344	-7.829308144	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	0	20	-11.15722661	-9.706324282	1	Not Equivalent	-25.47044163	1.98042E-37	1	-12.21463721	-10.09981601	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	0	25	-13.20800781	-12.93919983	1	Not Equivalent	-28.70331718	9.49857E-41	1	-14.26541841	-12.15059721	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	0	30	-14.99023437	-15.7487227	1	Not Equivalent	-31.51284005	2.18826E-43	1	-16.04764497	-13.93282377	Equivalent	Not Equivalent	Not Equivalent
Abduction	70	0	35	-16.28336588	-17.78723038	1	Not Equivalent	-33.55134774	3.5586E-45	1	-17.34077648	-15.22595528	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	-5	0	-3.05175781	2.857340639	0.002810629	Equivalent	-11.80890904	1.26694E-18	0.002810629	-4.188322723	-1.915192897	Equivalent	Equivalent	Equivalent
Abduction	75	-10	0	-5.615234373	-0.902318092	0.815008831	Not Equivalent	-15.56856777	9.87829E-25	0.815008831	-6.751799286	-4.47866946	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	-15	0	-9.106445313	-6.022615224	0.999999964	Not Equivalent	-20.6888649	7.64249E-32	0.999999964	-10.24301023	-7.969880399	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	-20	0	-11.42578125	-9.424211225	1	Not Equivalent	-24.0904609	6.59308E-36	1	-12.56234617	-10.28921634	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	-25	0	-13.96484374	-13.14806366	1	Not Equivalent	-27.81431334	7.21236E-40	1	-15.10140865	-12.82827883	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	-30	0	-15.64941406	-15.61869656	1	Not Equivalent	-30.28494624	2.9303E-42	1	-16.78597898	-14.51284915	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	-35	0	-17.18750001	-17.87449181	1	Not Equivalent	-32.54074149	2.66566E-44	1	-18.32406493	-16.0509351	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	0	5	-3.002929692	2.928953177	0.002293593	Equivalent	-11.7372965	1.68451E-18	0.002293593	-4.139494605	-1.866364779	Equivalent	Equivalent	Equivalent
Abduction	75	0	10	-5.957031325	-1.403606036	0.917571513	Not Equivalent	-16.06985571	1.73376E-25	0.917571513	-7.093596238	-4.820466412	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	0	15	-8.227539065	-4.733589377	0.999994427	Not Equivalent	-19.39983906	3.56776E-30	0.999994427	-9.364103978	-7.090974152	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	0	20	-10.42480464	-7.956153927	1	Not Equivalent	-22.62240361	3.28005E-34	1	-11.56136955	-9.288239724	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	0	25	-12.01171875	-10.28356179	1	Not Equivalent	-24.94981147	7.29736E-37	1	-13.14828367	-10.87515384	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	0	30	-13.15917969	-11.96645665	1	Not Equivalent	-26.63270633	1.16252E-38	1	-14.2957446	-12.02261478	Equivalent	Not Equivalent	Not Equivalent
Abduction	75	0	35	-13.60921224	-12.62648563	1	Not Equivalent	-27.29273531	2.43025E-39	1	-14.74577715	-12.47264733	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	-5	0	-2.954101569	2.565321356	0.006226447	Not Equivalent	-9.97352865	2.23064E-15	0.006226447	-4.283501377	-1.624701761	Equivalent	Not Equivalent	Equivalent
Abduction	80	-10	0	-6.103515631	-1.383681698	0.914573738	Not Equivalent	-13.9225317	3.74365E-22	0.914573738	-7.432915439	-4.774115823	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	-15	0	-8.691406263	-4.628598943	0.999991771	Not Equivalent	-17.16744895	4.28011E-27	0.999991771	-10.02080607	-7.362006454	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	-20	0	-11.96289063	-8.730664115	1	Not Equivalent	-21.26951412	1.4311E-32	1	-13.29229043	-10.63349082	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	-25	0	-14.11132813	-11.42455767	1	Not Equivalent	-23.96340768	9.17701E-36	1	-15.44072793	-12.78192832	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	-30	0	-16.52832031	-14.45518792	1	Not Equivalent	-26.99403793	4.91553E-39	1	-17.85772012	-15.19892051	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	-35	0	-17.96875002	-16.26132113	1	Not Equivalent	-28.80017113	7.64071E-41	1	-19.29814983	-16.63935021	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	0	5	-2.978515617	2.534708947	0.006746225	Not Equivalent	-10.00414106	1.96404E-15	0.006746225	-4.307915425	-1.649115809	Equivalent	Not Equivalent	Equivalent
Abduction	80	0	10	-5.493164004	-0.618370948	0.730831103	Not Equivalent	-13.15722095	6.65766E-21	0.730831103	-6.822563812	-4.163764196	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	0	15	-7.714843744	-3.404101849	0.999448951	Not Equivalent	-15.94295185	2.68539E-25	0.999448951	-9.044243552	-6.385443936	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	0	20	-9.252929683	-5.332684738	0.999999437	Not Equivalent	-17.87153474	4.29956E-28	0.999999437	-10.58232949	-7.923529875	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	0	25	-10.54687499	-6.955143354	0.999999999	Not Equivalent	-19.49399336	2.67842E-30	0.999999999	-11.8762748	-9.217475186	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	0	30	-11.05957031	-7.598004317	1	Not Equivalent	-20.13685432	3.87923E-31	1	-12.38897011	-9.730170498	Equivalent	Not Equivalent	Not Equivalent
Abduction	80	0	35	-10.84065755	-7.32351289	1	Not Equivalent	-19.86236289	8.80451E-31	1	-12.17005735	-9.511257738	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	-5	0	-2.954101565	2.11105799	0.019170176	Not Equivalent	-8.207430716	3.7895E-12	0.019170176	-4.569565347	-1.338637782	Equivalent	Not Equivalent	Equivalent
Abduction	85	-10	0	-5.981445315	-1.012703239	0.842655175	Not Equivalent	-11.33119195	8.56755E-18	0.842655175	-7.596909097	-4.365981532	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	-15	0	-9.106445313	-4.237230958	0.999966092	Not Equivalent	-14.55571966	3.66105E-23	0.999966092	-10.72190909	-7.49098153	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	-20	0	-11.79199219	-7.008309472	0.999999999	Not Equivalent	-17.32679818	2.53131E-27	0.999999999	-13.40745597	-10.17652841	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	-25	0	-14.79492188	-10.10687907	1	Not Equivalent	-20.42536778	1.65309E-31	1	-16.41038566	-13.17945809	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	-30	0	-16.87011718	-12.24816701	1	Not Equivalent	-22.56665571	3.81916E-34	1	-18.48558096	-15.2546534	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	-35	0	-18.99414063	-14.4398382	1	Not Equivalent	-24.75832691	1.18542E-36	1	-20.60960441	-17.37867685	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	0	5	-2.832031242	2.237016115	0.014236004	Not Equivalent	-8.081472591	6.46548E-12	0.014236004	-4.447495024	-1.21656746	Equivalent	Not Equivalent	Equivalent
Abduction	85	0	10	-4.882812508	0.120919781	0.4520505	Not Equivalent	-10.19756892	8.80337E-16	0.4520505	-6.49827629	-3.267348726	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	0	15	-6.616210935	-1.667685428	0.950076906	Not Equivalent	-11.98617413	6.27524E-19	0.950076906	-8.231674718	-5.000747153	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	0	20	-7.861328117	-2.952458186	0.997855927	Not Equivalent	-13.27094689	4.32041E-21	0.997855927	-9.476791899	-6.245864335	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	0	25	-8.447265623	-3.55705714	0.99966107	Not Equivalent	-13.87554585	4.45766E-22	0.99966107	-10.06272941	-6.831801841	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	0	30	-8.593749998	-3.708206876	0.999792844	Not Equivalent	-14.02669558	2.54486E-22	0.999792844	-10.20921378	-6.978286216	Equivalent	Not Equivalent	Not Equivalent
Abduction	85	0	35	-7.692871092	-2.778635995	0.996498664	Not Equivalent	-13.0971247	8.3723E-21	0.996498664	-9.308334874	-6.07740731	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	-5	0	-3.002929681	1.767536132	0.040748314	Not Equivalent	-7.083109314	4.405E-10	0.040748314	-4.886311508	-1.119547854	Equivalent	Not Equivalent	Equivalent
Abduction	90	-10	0	-6.005859369	-0.890250464	0.811809522	Not Equivalent	-9.74089591	5.88225E-15	0.811809522	-7.889241196	-4.122477542	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	-15	0	-9.08203125	-3.612861129	0.999717015	Not Equivalent	-12.46350658	9.63982E-20	0.999717015	-10.96541308	-7.198649423	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	-20	0	-12.28027344	-6.443511894	0.999999994	Not Equivalent	-15.29415734	2.59516E-24	0.999999994	-14.16365526	-10.39689161	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	-25	0	-14.89257812	-8.755570149	1	Not Equivalent	-17.6062156	1.01514E-27	1	-16.77595995	-13.00919629	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	-30	0	-17.52929686	-11.08923642	1	Not Equivalent	-19.93988186	6.97957E-31	1	-19.41267868	-15.64591503	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	-35	0	-19.60449219	-12.92591823	1	Not Equivalent	-21.77656368	3.4055E-33	1	-21.48787402	-17.72111036	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	0	5	-2.075195325	2.588640918	0.005855107	Not Equivalent	-6.262004528	1.34251E-08	0.005855107	-3.958577152	-0.191813498	Equivalent	Not Equivalent	Equivalent
Abduction	90	0	10	-4.028320321	0.859999233	0.196362662	Not Equivalent	-7.990646213	9.5037E-12	0.196362662	-5.911702148	-2.144938494	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	0	15	-5.297851569	-0.263617863	0.60357556	Not Equivalent	-9.114263309	8.16368E-14	0.60357556	-7.181233396	-3.414469742	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	0	20	-6.079101563	-0.955074533	0.82858664	Not Equivalent	-9.805719979	4.48764E-15	0.82858664	-7.96248339	-4.195719735	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	0	25	-6.323242194	-1.17115475	0.877246087	Not Equivalent	-10.0218002	1.82506E-15	0.877246087	-8.206624021	-4.439860367	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	0	30	-5.761718756	-0.674170264	0.748788298	Not Equivalent	-9.52481571	1.4529E-14	0.748788298	-7.645100583	-3.878336929	Equivalent	Not Equivalent	Not Equivalent
Abduction	90	0	35	-3.594563808	1.243901743	0.108842578	Not Equivalent	-7.606743703	4.83476E-11	0.108842578	-5.477945635	-1.711181981	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	-5	0	-2.392578119	2.01874822	0.023672769	Not Equivalent	-5.723567033	1.19588E-07	0.023672769	-4.545570376	-0.239585862	Equivalent	Not Equivalent	Equivalent
Abduction	95	-10	0	-5.444335931	-0.344018886	0.634068318	Not Equivalent	-8.086334139	6.33353E-12	0.634068318	-7.597328188	-3.291343674	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	-15	0	-8.520507804	-2.725688127	0.995949795	Not Equivalent	-10.46800338	2.88257E-16	0.995949795	-10.67350006	-6.367515547	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	-20	0	-11.69433593	-5.182965914	0.999998992	Not Equivalent	-12.92528117	1.61627E-20	0.999998992	-13.84732818	-9.541343668	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	-25	0	-14.86816405	-7.640243707	1	Not Equivalent	-15.38255896	1.89923E-24	1	-17.02115631	-12.7151718	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	-30	0	-17.48046874	-9.662772352	1	Not Equivalent	-17.4050876	1.95774E-27	1	-19.633461	-15.32747649	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	-35	0	-19.82421875	-11.47737749	1	Not Equivalent	-19.21969274	6.19161E-30	1	-21.977211	-17.67122649	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	0	5	-1.928710942	2.377888812	0.010073368	Not Equivalent	-5.364426441	4.9711E-07	0.010073368	-4.081703199	0.224281315	Equivalent	Not Equivalent	Equivalent
Abduction	95	0	10	-3.393554688	1.243760605	0.108868398	Not Equivalent	-6.498554648	5.05837E-09	0.108868398	-5.546546945	-1.24056243	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	0	15	-4.125976569	0.676696494	0.250414299	Not Equivalent	-7.065618758	4.74098E-10	0.250414299	-6.278968826	-1.972984312	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	0	20	-4.736328129	0.204143075	0.419417027	Not Equivalent	-7.538172178	6.46213E-11	0.419417027	-6.889320386	-2.583335872	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	0	25	-4.418945319	0.449870852	0.327096814	Not Equivalent	-7.292444401	1.82451E-10	0.327096814	-6.571937576	-2.265953062	Equivalent	Not Equivalent	Not Equivalent
Abduction	95	0	30	-2.490234381	1.943139663	0.028010706	Not Equivalent	-5.79917559	8.82644E-08	0.028010706	-4.643226638	-0.337242124	Equivalent	Not Equivalent	Equivalent
Abduction	95	0	35	-0.249837246	3.677725754	0.000228993	Equivalent	-4.064589498	6.20727E-05	0.000228993	-2.402829503	1.903155011	Equivalent	Equivalent	Equivalent
Abduction	100	-5	0	-2.197265619	1.95535596	0.027267044	Not Equivalent	-5.021245081	1.87938E-06	0.027267044	-4.586558728	0.19202749	Equivalent	Not Equivalent	Equivalent
Abduction	100	-10	0	-4.736328119	0.183953352	0.427290948	Not Equivalent	-6.792647689	1.48798E-09	0.427290948	-7.125621228	-2.34703501	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	-15	0	-7.7392578	-1.911070882	0.96995459	Not Equivalent	-8.887671923	2.12455E-13	0.96995459	-10.12855091	-5.349964691	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	-20	0	-10.93749999	-4.142356859	0.999952651	Not Equivalent	-11.1189579	2.01917E-17	0.999952651	-13.3267931	-8.548206879	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	-25	0	-14.42871094	-6.578035454	0.999999996	Not Equivalent	-13.5546365	1.47967E-21	0.999999996	-16.81800405	-12.03941783	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	-30	0	-17.3828125	-8.638994259	1	Not Equivalent	-15.6155953	8.37927E-25	1	-19.77210561	-14.99351939	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	-35	0	-19.89746093	-10.39336415	1	Not Equivalent	-17.36996519	2.19674E-27	1	-22.28675404	-17.50816782	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	0	5	-1.611328125	2.364141173	0.010425439	Not Equivalent	-4.612459868	8.73353E-06	0.010425439	-4.000621234	0.777964984	Equivalent	Not Equivalent	Equivalent
Abduction	100	0	10	-2.636718758	1.648767037	0.051838337	Not Equivalent	-5.327834004	5.73741E-07	0.051838337	-5.026011867	-0.247425649	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	0	15	-3.295898444	1.188883669	0.119251487	Not Equivalent	-5.787717372	9.2429E-08	0.119251487	-5.685191553	-0.906605335	Equivalent	Not Equivalent	Not Equivalent

Abduction	100	0	20	-3.173828138	1.274047252	0.10343022	Not Equivalent	-5.702553789	1.30092E-07	0.10343022	-5.563121246	-0.784535029	Equivalent	Not Equivalent	Not Equivalent
Abduction	100	0	25	-1.806640631	2.22787943	0.014552075	Not Equivalent	-4.748721611	5.26672E-06	0.014552075	-4.19593374	0.582652478	Equivalent	Not Equivalent	Equivalent
Abduction	100	0	30	0.268554681	3.675660407	0.000230549	Equivalent	-3.300940634	0.000759338	0.000759338	-2.120738428	2.65784779	Equivalent	Equivalent	Equivalent
Abduction	100	0	35	3.500162754	5.930224432	5.19944E-08	Equivalent	-1.046376609	0.14949349	0.14949349	1.110869645	5.889455863	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	105	-5	0	-1.831054681	2.041308495	0.022495725	Not Equivalent	-4.400293647	1.89347E-05	0.022495725	-4.418787426	0.756678063	Equivalent	Not Equivalent	Equivalent
Abduction	105	-10	0	-4.272460931	0.468651722	0.320387403	Not Equivalent	-5.972950419	4.37229E-08	0.320387403	-6.860193676	-1.684728187	Equivalent	Not Equivalent	Not Equivalent
Abduction	105	-15	0	-6.982421875	-1.2769973	0.897088524	Not Equivalent	-7.718599441	3.01085E-11	0.897088524	-9.57015462	-4.39468913	Equivalent	Not Equivalent	Not Equivalent
Abduction	105	-20	0	-10.10742187	-3.289997964	0.999214665	Not Equivalent	-9.731600105	6.11516E-15	0.999214665	-12.69515461	-7.519689122	Equivalent	Not Equivalent	Not Equivalent
Abduction	105	-25	0	-13.4765625	-5.460264313	0.999999659	Not Equivalent	-11.90186645	8.76093E-19	0.999999659	-16.06429524	-10.88882975	Equivalent	Not Equivalent	Not Equivalent
Abduction	105	-30	0	-17.01660156	-7.740616632	1	Not Equivalent	-14.18221877	1.43384E-22	1	-19.6043343	-14.42886881	Equivalent	Not Equivalent	Not Equivalent
Abduction	105	-35	0	-19.62890625	-9.423359386	1	Not Equivalent	-15.86496153	3.51737E-25	1	-22.216639	-17.04117351	Equivalent	Not Equivalent	Not Equivalent
Abduction	105	0	5	-1.269531258	2.403019544	0.009457081	Not Equivalent	-4.038582598	6.7915E-05	0.009457081	-3.857264003	1.318201486	Equivalent	Not Equivalent	Equivalent
Abduction	105	0	10	-2.026367187	1.915495949	0.029757406	Not Equivalent	-4.526106192	1.19914E-05	0.029757406	-4.614099932	0.561365557	Equivalent	Not Equivalent	Equivalent
Abduction	105	0	15	-2.124023444	1.852589674	0.034078593	Not Equivalent	-4.589012467	9.52123E-06	0.034078593	-4.711756188	0.463709301	Equivalent	Not Equivalent	Equivalent
Abduction	105	0	20	-1.489257825	2.261480431	0.013419252	Not Equivalent	-4.18012171	4.14752E-05	0.013419252	-4.07699057	1.09847492	Equivalent	Not Equivalent	Equivalent
Abduction	105	0	25	0.317382806	3.425246447	0.000515627	Equivalent	-3.016355694	0.001782026	0.001782026	-2.270349938	2.905115551	Equivalent	Equivalent	Equivalent
Abduction	105	0	30	3.124999994	5.233801736	8.27936E-07	Equivalent	-1.207800406	0.115594482	0.115594482	0.537267249	5.712732738	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	105	0	35	6.929524733	7.684525207	3.47828E-11	Equivalent	1.242923065	0.890978286	0.890978286	4.341791989	9.517257478	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	110	-5	0	-1.684570306	1.956703567	0.027186048	Not Equivalent	-3.945106298	9.35995E-05	0.027186048	-4.508982677	1.139842064	Equivalent	Not Equivalent	Equivalent
Abduction	110	-10	0	-3.540039056	0.86164119	0.195913533	Not Equivalent	-5.040168675	1.74806E-06	0.195913533	-6.364451427	-0.715626686	Equivalent	Not Equivalent	Not Equivalent
Abduction	110	-15	0	-6.249999992	-0.737726228	0.768426627	Not Equivalent	-6.639536093	2.81716E-09	0.768426627	-9.074412362	-3.425587621	Equivalent	Not Equivalent	Not Equivalent
Abduction	110	-20	0	-9.204101558	-2.481180805	0.992250069	Not Equivalent	-8.38299067	1.79992E-12	0.992250069	-12.02851393	-6.379689188	Equivalent	Not Equivalent	Not Equivalent
Abduction	110	-25	0	-12.6220703	-4.498400969	0.999986733	Not Equivalent	-10.40021083	3.81115E-16	0.999986733	-15.44648267	-9.79765793	Equivalent	Not Equivalent	Not Equivalent
Abduction	110	-30	0	-16.13769531	-6.573256006	0.999999996	Not Equivalent	-12.47506587	9.21543E-20	0.999999996	-18.96210768	-13.31328294	Equivalent	Not Equivalent	Not Equivalent
Abduction	110	-35	0	-19.4580078	-8.532841309	1	Not Equivalent	-14.43465117	5.68776E-23	1	-22.28242017	-16.63359543	Equivalent	Not Equivalent	Not Equivalent
Abduction	110	0	5	-0.830078129	2.461008603	0.008161737	Not Equivalent	-3.440801262	0.000490955	0.008161737	-3.654490499	1.994334241	Equivalent	Not Equivalent	Equivalent
Abduction	110	0	10	-1.098632821	2.302512731	0.012141904	Not Equivalent	-3.599297135	0.000295714	0.012141904	-3.923045191	1.725779549	Equivalent	Not Equivalent	Equivalent
Abduction	110	0	15	-0.488281256	2.662730619	0.00480465	Not Equivalent	-3.239079246	0.00091769	0.00480465	-3.312693627	2.336131114	Equivalent	Not Equivalent	Equivalent
Abduction	110	0	20	0.561523438	3.282305389	0.000804108	Equivalent	-2.619504476	0.005394507	0.005394507	-2.262888933	3.385935808	Not Equivalent	Not Equivalent	Equivalent
Abduction	110	0	25	2.978515619	4.708768219	6.11281E-06	Equivalent	-1.193041646	0.118440593	0.118440593	0.154103248	5.802927989	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	110	0	30	6.249999994	6.639536095	2.81716E-09	Equivalent	0.737726229	0.768426627	0.768426627	3.425587623	9.074412364	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	110	0	35	9.823404942	8.748491752	3.82702E-13	Equivalent	2.846681887	0.997103816	0.997103816	6.998992571	12.64781731	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	115	-5	0	-0.952148431	2.304242402	0.012090506	Not Equivalent	-3.388264754	0.000579072	0.012090506	-3.880409096	1.976112234	Equivalent	Not Equivalent	Equivalent
Abduction	115	-10	0	-2.783203119	1.261913211	0.105584293	Not Equivalent	-4.430593945	1.69716E-05	0.105584293	-5.711463784	0.145057546	Equivalent	Not Equivalent	Not Equivalent
Abduction	115	-15	0	-5.053710938	-0.03057499	0.512152252	Not Equivalent	-5.723082145	1.1982E-07	0.512152252	-7.981971603	-2.125450272	Equivalent	Not Equivalent	Not Equivalent
Abduction	115	-20	0	-7.910156242	-1.656608523	0.948962631	Not Equivalent	-7.349115679	1.43651E-10	0.948962631	-10.83841691	-4.981895577	Equivalent	Not Equivalent	Not Equivalent
Abduction	115	-25	0	-11.32812499	-3.60228968	0.999707141	Not Equivalent	-9.294796836	3.81698E-14	0.999707141	-14.25638566	-8.399864327	Equivalent	Not Equivalent	Not Equivalent
Abduction	115	-30	0	-15.03906249	-5.714743508	0.999999876	Not Equivalent	-11.40725066	6.30882E-18	0.999999876	-17.96732316	-12.11080183	Equivalent	Not Equivalent	Not Equivalent
Abduction	115	-35	0	-18.57910155	-7.729913272	1	Not Equivalent	-13.42242043	2.435E-21	1	-21.50736221	-15.65084088	Equivalent	Not Equivalent	Not Equivalent
Abduction	115	0	5	-0.537109375	2.540503682	0.006644927	Not Equivalent	-3.152003474	0.001193649	0.006644927	-3.46537004	2.39115129	Equivalent	Not Equivalent	Equivalent
Abduction	115	0	10	-0.415039063	2.609992295	0.00553283	Not Equivalent	-3.082514861	0.001467649	0.00553283	-3.343299728	2.513221603	Equivalent	Not Equivalent	Equivalent
Abduction	115	0	15	0.390624994	3.068617135	0.001529054	Equivalent	-2.623890021	0.005331797	0.005331797	-2.537635671	3.318885659	Not Equivalent	Not Equivalent	Equivalent
Abduction	115	0	20	2.416992175	4.222128103	3.57682E-05	Equivalent	-1.470379053	0.07296998	0.07296998	-0.51126849	5.34525284	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	115	0	25	5.297851556	5.862059367	6.84997E-08	Equivalent	0.169552212	0.567074325	0.567074325	2.369590891	8.226112221	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	115	0	30	8.325195306	7.585376963	5.29231E-11	Equivalent	1.892869808	0.968745035	0.968745035	5.396934641	11.25345597	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	115	0	35	12.51708984	9.971615925	2.24845E-15	Equivalent	4.279108769	0.999970774	0.999970774	9.588829172	15.4453505	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	120	-5	0	-0.732421873	2.35407044	0.010690257	Not Equivalent	-3.162103769	0.001158057	0.010690257	-3.75428887	2.289445124	Equivalent	Not Equivalent	Equivalent
Abduction	120	-10	0	-1.87988281	1.721110997	0.044823997	Not Equivalent	-3.795063212	0.000155299	0.044823997	-4.901749807	1.141984186	Equivalent	Not Equivalent	Equivalent
Abduction	120	-15	0	-3.833007817	0.643733218	0.260926003	Not Equivalent	-4.872440991	3.30891E-06	0.260926003	-6.854874813	-0.81114082	Equivalent	Not Equivalent	Not Equivalent
Abduction	120	-20	0	-6.640625	-0.904997331	0.815714427	Not Equivalent	-6.42117154	6.96729E-09	0.815714427	-9.662491997	-3.618758003	Equivalent	Not Equivalent	Not Equivalent
Abduction	120	-25	0	-9.838867192	-2.66920344	0.995278436	Not Equivalent	-8.185377649	4.16106E-12	0.995278436	-12.86073419	-6.817000195	Equivalent	Not Equivalent	Not Equivalent
Abduction	120	-30	0	-13.74511719	-4.823958987	0.999996028	Not Equivalent	-10.3401332	4.88298E-16	0.999996028	-16.76698418	-10.72325019	Equivalent	Not Equivalent	Not Equivalent
Abduction	120	-35	0	-17.70019533	-7.005648992	0.999999999	Not Equivalent	-12.5218232	7.68238E-20	0.999999999	-20.72206233	-14.67832833	Equivalent	Not Equivalent	Not Equivalent
Abduction	120	0	5	-0.195312508	2.650349322	0.004967299	Not Equivalent	-2.865824887	0.002744201	0.004967299	-3.217179505	2.826554488	Equivalent	Not Equivalent	Equivalent
Abduction	120	0	10	0.146484371	2.838890435	0.002960234	Equivalent	-2.677283774	0.00461968	0.00461968	-2.875382626	3.168351368	Not Equivalent	Not Equivalent	Equivalent
Abduction	120	0	15	1.855468748	3.78159599	0.000162434	Equivalent	-1.734578219	0.04360855	0.04360855	-1.166398249	4.877335745	Not Equivalent	Not Equivalent	Equivalent
Abduction	120	0	20	4.1015625	5.020580432	1.88416E-06	Equivalent	-0.495593777	0.310866696	0.310866696	1.079695503	7.123429497	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	120	0	25	7.104492185	6.67704876	2.40989E-09	Equivalent	1.160874552	0.875181736	0.875181736	4.082625189	10.12635918	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	120	0	30	10.64453125	8.629795978	6.325E-13	Equivalent	3.113621769	0.998661558	0.998661558	7.622664251	13.66639824	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	120	0	35	14.62809245	10.82719773	6.61278E-17	Equivalent	5.311023523	0.999999387	0.999999387	11.60622545	17.64995944	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	125	-5	0	-0.219726569	2.504098422	0.007304818	Not Equivalent	-2.734301552	0.003955866	0.007304818	-3.401832722	2.962379585	Not Equivalent	Not Equivalent	Equivalent
Abduction	125	-10	0	-1.416015631	1.877434362	0.032312726	Not Equivalent	-3.360965611	0.000630559	0.032312726	-4.598121785	1.766090522	Equivalent	Not Equivalent	Equivalent
Abduction	125	-15	0	-2.880859388	1.110090613	0.135379429	Not Equivalent	-4.128309361	4.97319E-05	0.135379429	-6.062965541	0.301246766	Equivalent	Not Equivalent	Not Equivalent
Abduction	125	-20	0	-5.151367192	-0.079292189	0.531486769	Not Equivalent	-5.317692163	5.9696E-07	0.531486769	-8.333473345	-1.969261038	Equivalent	Not Equivalent	Not Equivalent
Abduction	125	-25	0	-8.642578125	-1.908128115	0.969761757	Not Equivalent	-7.146528089	3.37376E-10	0.969761757	-11.82468428	-5.460471971	Equivalent	Not Equivalent	Not Equivalent
Abduction	125	-30	0	-12.15820312	-3.749753103	0.99981943	Not Equivalent	-8.988153076	1.38978E-13	0.99981943	-15.34030927	-8.976096965	Equivalent	Not Equivalent	Not Equivalent
Abduction	125	-35	0	-16.35742188	-5.949471849	0.999999952	Not Equivalent	-11.18787182	1.52774E-17	0.999999952	-19.53952804	-13.17531573	Equivalent	Not Equivalent	Not Equivalent
Abduction	125	0	5	4.16667E-09	2.619199989	0.005398885	Not Equivalent	-2.619199985	0.005398885	0.005398885	-3.182106149	3.182106158	Not Equivalent	Not Equivalent	Equivalent
Abduction	125	0	10	1.269531258	3.284231238	0.000799369	Equivalent	-1.954168736	0.02733857	0.02733857	-1.912574895	4.451637412	Not Equivalent	Not Equivalent	Equivalent
Abduction	125	0	15	3.076171881	4.230621857	3.47102E-05	Equivalent	-1.007778117	0.158515983	0.158515983	-0.105934272	6.258278035	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	125	0	20	6.030273446	5.778098413	9.60744E-08	Equivalent	0.539698439	0.704441116	0.704441116	2.848167292	9.212379599	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	125	0	25	9.057617194	7.363942154	1.34936E-10	Equivalent	2.12554218	0.981464202	0.981464202	5.87551104	12.23972335	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	125	0	30	12.57324219	9.205567144	5.55663E-14	Equivalent	3.967167171	0.999913193	0.999913193	9.39113604	15.75534835	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	125	0	35	16.31266277	11.16442521	1.67971E-17	Equivalent	5.926025234	0.999999947	0.999999947	13.13055661	19.49476892	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	130	-5	0	-0.170898435	2.497514982	0.007430267	Not Equivalent	-2.674285505	0.004657249	0.007430267	-3.393981931	3.05218506	Not Equivalent	Not Equivalent	Equivalent
Abduction	130	-10	0	-0.781249998	2.181853332	0.016239852	Not Equivalent	-2.989947156	0.001924165	0.016239852	-4.004333493	2.441833497	Equivalent	Not Equivalent	Equivalent
Abduction	130	-15	0	-1.953125004	1.575782959	0.059792428	Not Equivalent	-3.596017528	0.000298872	0.059792428	-5.176208499	1.269958491	Equivalent	Not Equivalent	Not Equivalent
Abduction	130	-20	0	-3.857421867	0.590918615	0.278239104	Not Equivalent	-4.580881872	9.81018E-06	0.278239104	-7.080505362	-0.634338371	Equivalent	Not Equivalent	Not Equivalent
Abduction	130	-25	0	-6.835937492	-0.949510241	0.827186033	Not Equivalent	-6.121310729	2.38941E-08	0.827186033	-10.05902099	-3.612853996	Equivalent	Not Equivalent	Not Equivalent
Abduction	130	-30	0	-10.59570313	-2.893986016	0.997466054	Not Equivalent	-8.065786503	6.91026E-12	0.997466054	-13.81878662	-7.372619632	Equivalent	Not Equivalent	Not Equivalent
Abduction	130	-35	0	-14.67285158	-5.002605851	0.999997982	Not Equivalent	-10.17440634	9.68967E-16	0.999997982	-17.89593507	-11.44976808	Equivalent	Not Equivalent	Not Equivalent
Abduction	130	0	5	0.68359375	2.939441292	0.002225722	Equivalent	-2.232359195	0.014396341	0.014396341	-2.539489745	3.906677245	Not Equivalent	Not Equivalent	Equivalent
Abduction	130	0	10	2.270507804	3.76016158	0.000174439	Equivalent	-1.411638907	0.081243016	0.081243016	-0.952575691	5.493591299	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	130	0	15	4.736328123	5.035434653	1.78004E-06	Equivalent	-0.136365834	0.445961755	0.445961755	1.513244628	7.959411618	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	130	0	20	7.446289058	6.436972381	6.52678E-09	Equivalent	1.265171894	0.894997427	0.894997427	4.223205563	10.66937255	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	130	0	25	10.79101562	8.166798229	4.50223E-12	Equivalent	2.994997742	0.998103807	0.998103807	7.567932128	14.01409912	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	130	0	30	14.2578125	9.959756406	2.36216E-15	Equivalent	4.787955919	0.999995453	0.999995453	11.034729	17.48089599	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	130	0	35	17.50732422	11.64033903	2.47963E-18	Equivalent	6.468538548	0.999999994	0.999999994	14.28424072	20.73040771	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	135	-5	0	0.51269531	2.857303141	0.002810926	Equivalent	-2.325829574	0.011465058	0.011465058	-2.703341343	3.728731964	Not Equivalent	Not Equivalent	Equivalent
Abduction	135	-10	0	0.21972656	2.70545355	0.004279971	Not Equivalent	-2.477679165	0.007820048	0.007820048	-2.996310093	3.435763214	Not Equivalent	Not Equivalent	Equivalent
Abduction	135	-15	0	-0.488281258	2.338483701	0.011111925	Not Equivalent	-2.844649014	0.002912771	0.011111925	-3.704317911	2.727755395	Equivalent	Not Equivalent	Equivalent
Abduction	135	-20	0	-2.221679692	1.440040288	0.077156794	Not Equivalent	-3.743092427	0.000184601	0.077156794	-5.437716345	0.994356961	Equivalent	Not Equivalent	Not Equivalent
Abduction	135	-25	0	-4.858398438	0.073393969	0.470850969	Not Equivalent	-5.109738746	1.33812E-06	0.470850969	-8.074435091	-1.642361784	Equivalent	Not Equivalent	Not Equivalent
Abduction	135	-30	0	-8.398437506	-1.761455262	0.958735978	Not Equivalent	-6.944587977	7.87894E-10	0.958735978	-11.61447416	-5.182400853	Equivalent	Not Equivalent	Not Equivalent
Abduction	135	-35	0	-12.67089844	-3.975928467	0.999915757	Not Equivalent	-9.159061182	6.75909E-14	0.999915757	-15.88693509	-9.454861789	Equivalent	Not Equivalent	Not Equivalent
Abduction	135	0	5	1.074218746	3.14834819	0.00120678	Equivalent	-2.034784525	0.022830808	0.022830808	-2.141817907	4.290255399	Not Equivalent	Not Equivalent	Equivalent
Abduction	135	0	10	3.295898438	4.299874259	2.71426E-05	Equivalent	-0.883258456	0.190060027	0.190060027	0.079861784	6.511935091	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	135	0	15	5.688476565	5.539979256	2.48696E-07	Equivalent	0.356846541	0.638859912	0.638859912	2.472439911	8.904513218	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	135	0	20	8.666992183	7.083783431	4.39254E-10	Equivalent	1.900650715	0.969267061	0.969267061	5.45095553	11.88302884	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	135	0	25	11.98730469	8.804745468	3.01661E-13	Equivalent	3.621612753	0.999724949	0.999724949	8.771268036	15.20334134	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	135	0	30	15.08789063	10.41182031	3.63308E-16	Equivalent	5.228687594	0.999999155	0.999999155	11.87185397	18.30392728	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	135	0	35	18.18115235	12.01509891	5.5975E-19	Equivalent	6.831966195	0.999999999	0.999999999	14.96511569	21.397189	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	140	-5	0	1.098632806	3.174724564	0.001114978	Equivalent	-2.030908673	0.023031906	0.023031906	-2.10350304	4.300768653	Not Equivalent	Not Equivalent	Equivalent
Abduction	140	-10	0	1.342773431	3.301815219	0.000757296	Equivalent	-1.903818018	0.030522564	0.030522564	-1.859362415	4.544909278	Not Equivalent	Not Equivalent	Equivalent
Abduction	140	-15	0	0.78125	3.009506715	0.001817922	Equivalent	-2.196126522	0.015698996	0.015698996	-2.420885846	3.983385846	Not Equivalent	Not Equivalent	Equivalent
Abduction	140	-20	0	-0.366210942	2.412180633	0.009240938	Not Equivalent	-2.793452603	0.003360452	0.009240938	-3.568346788	2.835924905	Equivalent	Not Equivalent	Equivalent
Abduction	140	-25	0	-2.63671875	1.230237542	0.111363271	Not Equivalent	-3.975395695	8.43964E-05	0.111363271	-5.838854596	0.565417096	Equivalent	Not Equivalent	Not Equivalent
Abduction	140	-30	0	-5.932617202	-0.48548631	0.685576235	Not Equivalent	-5.691119547	1.36184E-07	0.685576235	-9.134753048	-2.730481356	Equivalent	Not Equivalent	Not Equivalent
Abduction	140	-35	0	-10.25390626	-2.734990904	0.996051596	Not Equivalent	-7.940624141	1.17494E-11	0.996051596	-13.4560421	-7.051770412	Equivalent	Not Equivalent	Not Equivalent
Abduction	140	0	5	1.53808595	3.403487753	0.000552111	Equivalent	-1.802145484	0.037913943	0.037913943	-1.664049896	4.740221796	Not Equivalent	Not Equivalent	Equivalent
Abduction	140	0	10	3.833007817	4.598139907	9.20671E-06	Equivalent	-0.60749333	0.272744656	0.272744656	0.63087197	7.035143663	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	140	0	15	6.420898444	5.945300853	4.89127E-08	Equivalent	0.739667617	0.769012432	0.769012432	3.218762597	9.62303429	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	140	0	20	9.619140633	7.610188438	4.76479E-11	Equivalent	2.404555201	0.990579463	0.990579463	6.417004787	12.82127648	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	140	0	25	12.74414063	9.236948823	4.8689E-14	Equivalent	4.031315586	0.99993036	0.99993036	9.542004785	15.94627648	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	140	0	30	15.86914063	10.86370921	5.69771E-17	Equivalent	5.658075973	0.999999845	0.999999845	12.66700478	19.07127648	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	140	0	35	18.69384766	12.33414809	1.59723E-19	Equivalent	7.128514853	1	1	15.49171182	21.89598351	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	-5	0	1.342773444	3.412206739	0.000537208	Equivalent	-1.96746947	0.026546316	0.026546316	-1.75576709	4.441313977	Not Equivalent	Not Equivalent	Equivalent
Abduction	145	-10	0	2.026367194	3.779958043	0.000163323	Equivalent	-1.599718166	0.057082622	0.057082622	-1.07217334	5.124907727	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	-15	0	1.92871095	3.727422146	0.000194426	Equivalent	-1.652254063	0.051480904	0.051480904	-1.169829584	5.027251484	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	-20	0	1.293945317	3.385938788	0.000583299	Equivalent	-1.993737421	0.025039124	0.025039124	-1.804595217	4.39248585	Not Equivalent	Not Equivalent	Equivalent
Abduction	145	-25	0	-0.537109375	2.400890652	0.009507951	Not Equivalent	-2.978785557	0.001987346	0.009507951	-3.635649909	2.561431159	Equivalent	Not Equivalent	Equivalent
Abduction	145	-30	0	-3.564453123	0.772277738	0.221274794	Not Equivalent	-4.607398471	8.89801E-06	0.221274794	-6.662993656	-0.465912589	Equivalent	Not Equivalent	Not Equivalent
Abduction	145	-35	0	-7.446289063	-1.316024307	0.903770317	Not Equivalent	-6.695700516	2.22974E-09	0.903770317	-10.5448296	-4.347748529	Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	5	2.075195313	3.80622599	0.000149614	Equivalent	-1.573450219	0.060061944	0.060061944	-1.023345221	5.173735846	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	10	4.565429675	5.145891445	1.16396E-06	Equivalent	-0.233784764	0.407917224	0.407917224	1.466889141	7.663970209	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	15	7.446289056	6.695700513	2.22974E-09	Equivalent	1.316024304	0.903770317	0.903770317	4.347748523	10.54482959	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	20	10.42480469	8.298045481	2.58037E-12	Equivalent	2.918369272	0.99763598	0.99763598	7.326264154	13.52334522	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	25	13.42773437	9.913524417	2.86335E-15	Equivalent	4.533848208	0.999988343	0.999988343	10.32919384	16.5262749	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	30	16.43066406	11.52900336	3.87056E-18	Equivalent	6.149327148	0.999999979	0.999999979	13.33212352	19.52920459	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	145	0	35	19.20328775	13.02058513	1.12172E-20	Equivalent	7.640908922	1	1	16.10474722	22.30182829	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	-5	0	1.904296881	4.054046314	6.43804E-05	Equivalent	-1.81772656	0.036692616	0.036692616	-0.93456374	4.743157503	Not Equivalent	Not Equivalent	Equivalent
Abduction	150	-10	0	3.027343756	4.713473932	6.00666E-06	Equivalent	-1.158298942	0.125339328	0.125339328	0.188483135	5.866204378	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	-15	0	3.637695325	5.07185851	1.54799E-06	Equivalent	-0.799914364	0.213233353	0.213233353	0.798834703	6.476555947	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	-20	0	3.002929696	4.69913855	6.33576E-06	Equivalent	-1.172634324	0.122458828	0.122458828	0.164069074	5.841790318	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	-25	0	1.953125008	4.082717081	5.829E-05	Equivalent	-1.789055793	0.038966002	0.038966002	-0.885735613	4.79198563	Not Equivalent	Not Equivalent	Equivalent
Abduction	150	-30	0	-0.073242177	2.892880294	0.002541913	Equivalent	-2.97889258	0.001986731	0.002541913	-2.912102799	2.765618445	Equivalent	Equivalent	Equivalent
Abduction	150	-35	0	-3.833007808	0.685231309	0.247730456	Not Equivalent	-5.186541564	9.946E-07	0.247730456	-6.67186843	-0.994147187	Equivalent	Not Equivalent	Not Equivalent
Abduction	150	0	5	2.001953113	4.111387835	5.27564E-05	Equivalent	-1.760385039	0.041355343	0.041355343	-0.836907509	4.840813734	Not Equivalent	Not Equivalent	Equivalent
Abduction	150	0	10	4.663085925	5.673944581	1.45869E-07	Equivalent	-0.197828293	0.421876388	0.421876388	1.824225303	7.501946547	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	0	15	7.788085931	7.508873608	7.31455E-11	Equivalent	1.637100734	0.946951153	0.946951153	4.94922531	10.62694655	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	0	20	10.71777343	9.229119563	5.03205E-14	Equivalent	3.357346689	0.9993623	0.9993623	7.878912803	13.55663405	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	0	25	13.57421874	10.90635938	4.78869E-17	Equivalent	5.034586503	0.999998214	0.999998214	10.73535812	16.41307937	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	0	30	16.50390624	12.62660534	5.11489E-20	Equivalent	6.754832462	0.999999998	0.999999998	13.66504562	19.34276687	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	150	0	35	19.13167317	14.16957039	1.50216E-22	Equivalent	8.297797518	1	1	16.29281255	21.97053379	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	-5	0	1.782226565	4.404932251	1.86205E-05	Equivalent	-2.089885062	0.0201314	0.0201314	-0.784303637	4.348756767	Not Equivalent	Not Equivalent	Equivalent
Abduction	155	-10	0	3.637695315	5.610025308	1.88253E-07	Equivalent	-0.884792006	0.189648986	0.189648986	1.071165113	6.204225517	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	-15	0	4.565429683	6.212571832	1.64454E-08	Equivalent	-0.282245482	0.389294062	0.389294062	1.998899481	7.131959885	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	-20	0	4.760742183	6.339423732	9.76263E-09	Equivalent	-0.155393581	0.438479137	0.438479137	2.194211981	7.327272385	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	-25	0	3.808593746	5.721020717	1.20814E-07	Equivalent	-0.773796597	0.220828298	0.220828298	1.242063544	6.375123948	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	-30	0	2.343750002	4.769631466	4.87061E-06	Equivalent	-1.725185847	0.044453327	0.044453327	-0.2227802	4.910280204	Not Equivalent	Not Equivalent	Equivalent
Abduction	155	-35	0	-0.09765625	3.183982706	0.001084335	Equivalent	-3.310834607	0.000736533	0.001084335	-2.664186452	2.468873952	Equivalent	Equivalent	Equivalent
Abduction	155	0	5	2.441406254	4.833057417	3.8387E-06	Equivalent	-1.661759896	0.050516679	0.050516679	-0.125123948	5.007936456	Not Equivalent	Not Equivalent	Not Equivalent

Abduction	155	0	10	5.322265629	6.704122952	2.15284E-09	Equivalent	0.209305639	0.582591208	0.582591208	2.755735427	7.888795831	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	0	15	8.300781248	8.638614433	6.09317E-13	Equivalent	2.14379712	0.982237664	0.982237664	5.734251046	10.86731145	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	0	20	11.27929687	10.57310591	1.87123E-16	Equivalent	4.0782886	0.999940807	0.999940807	8.712766665	13.84582707	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	0	25	14.13574219	12.42831496	1.10571E-19	Equivalent	5.933497652	0.999999949	0.999999949	11.56921198	16.70227239	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	0	30	16.82128906	14.1725286	1.48589E-22	Equivalent	7.677711285	1	1	14.25475886	19.38781926	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	155	0	35	19.05680338	15.62445431	8.12372E-25	Equivalent	9.129636998	1	1	16.49027318	21.62333359	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	-5	0	2.148437502	5.019666572	1.89076E-06	Equivalent	-2.002380653	0.024559489	0.024559489	-0.225392274	4.522267278	Not Equivalent	Not Equivalent	Equivalent
Abduction	160	-10	0	3.930664065	6.271154481	1.29297E-08	Equivalent	-0.750892744	0.227617052	0.227617052	1.556834289	6.304493841	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	-15	0	5.6640625	7.488355048	7.97744E-11	Equivalent	0.466307824	0.678778454	0.678778454	3.290232724	8.037892276	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	-20	0	6.274414067	7.916946801	1.29902E-11	Equivalent	0.894899576	0.81304618	0.81304618	3.900584291	8.648243843	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	-25	0	6.0546875	7.762653768	2.49825E-11	Equivalent	0.740606543	0.769295446	0.769295446	3.680857724	8.428517276	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	-30	0	4.980468752	7.00833229	6.03044E-10	Equivalent	-0.013714935	0.494548212	0.494548212	2.606638976	7.354298528	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	-35	0	3.002929633	5.619694982	1.81138E-07	Equivalent	-1.402352243	0.082614713	0.082614713	0.629099857	5.376759409	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	0	5	2.539062496	5.293965288	6.54948E-07	Equivalent	-1.728081937	0.044191419	0.044191419	0.16523272	4.912892272	Not Equivalent	Not Equivalent	Equivalent
Abduction	160	0	10	5.615234371	7.454067706	9.22155E-11	Equivalent	0.432020481	0.666472796	0.666472796	3.241404595	7.989064147	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	0	15	8.544921873	9.511308105	1.53755E-14	Equivalent	2.48926088	0.992409712	0.992409712	6.171092097	10.91875165	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	0	20	11.35253905	11.48283015	4.65751E-18	Equivalent	4.460782924	0.999984787	0.999984787	8.978709278	13.72636883	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	0	25	14.20898437	13.48863954	1.89683E-21	Equivalent	6.466592316	0.999999994	0.999999994	11.8351546	16.58281415	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	0	30	16.67480469	15.22015021	3.37292E-24	Equivalent	8.198102984	1	1	14.30097491	19.04863446	Not Equivalent	Not Equivalent	Not Equivalent
Abduction	160	0	35	18.89241536	16.7773669	1.5684E-26	Equivalent	9.755319674	1	1	16.51858559	21.26624514	Not Equivalent	Not Equivalent	Not Equivalent