

Données pour les étudiants

Exercice 1 .

Satellite	x	y	z	t
1	2.093068	-1.2930932	3.363249	32.61633
2	1.135112	-1.2550693	3.807990	34.56532
3	1.299577	-0.9787247	3.836361	34.45954
4	2.759953	-1.1605371	2.898323	31.89811

Exercice 2 .

Satellite	x	y	z	t
1	-0.32921591	-1.472937	3.884139	41.90598
2	0.61040218	-1.803641	3.706582	43.51480
3	0.06655405	-1.524729	3.877530	42.23481
4	0.07501768	-1.448400	3.906530	41.87283

Exercice 3 .

Satellite	x	y	z	t
1	1.380211	1.890459	3.447556	6.769438
2	-0.113282	2.086801	3.605120	6.565428
3	0.140594	2.192389	3.540922	7.255479
4	1.225457	1.264887	3.776610	4.155299

Exercice 4 .

Satellite	x	y	z	t
1	0.4320463	1.664599	3.795644	18.47507
2	1.7837086	1.217869	3.563656	18.82623
3	0.5300295	1.613421	3.805313	18.51632
4	0.3193123	1.498333	3.875242	19.05935

Exercice 5 .

Satellite	x	y	z	t
1	2.598166	-0.1013863	3.256335	20.68395
2	3.378711	-0.3900883	2.407614	19.79297
3	3.665531	-0.5666635	1.899273	18.48781
4	3.673334	0.8409596	1.778726	18.17288

Exercice 6 .

Satellite	x	y	z	t
1	1.334392	0.05330589	3.947280	79.47168
2	2.133475	0.24051097	3.571401	83.30196
3	1.191700	-0.63648951	3.941979	78.87608
4	1.069750	-0.06693844	4.026862	78.18671

Exercice 7 .

Satellite	x	y	z	t
1	2.603964	-0.87638343	3.133016	20.83766
2	2.446662	-1.02656887	3.213170	20.38179
3	1.686626	0.07178216	3.809804	18.44618
4	2.942469	-0.54226901	2.900394	21.58202

Exercice 8 .

Satellite	x	y	z	t
1	-0.1714953	1.381494	3.927662	47.27747
2	-0.3090935	1.232624	3.968572	46.45993
3	0.8200210	2.250166	3.410100	51.64229
4	0.5538560	2.830699	3.007466	53.40876

Exercice 9 .

Satellite	x	y	z	t
1	2.348085	1.314314	3.181751	45.89475
2	3.106390	1.465334	2.359577	46.00384
3	2.428128	1.198262	3.167464	45.90166
4	1.736549	1.885450	3.285413	45.05192

Exercice 10 .

Satellite	x	y	z	t
1	2.399195	-0.7849748	3.315440	86.73922
2	2.803718	-1.2747165	2.806907	85.88212
3	1.345830	-1.0881701	3.790658	88.33374
4	2.528788	-1.0833272	3.129871	86.28180