

Guided Project 62: Intercepting a UFO

Topics and skills: Vectors, calculator

Two tracking stations make a sighting of a UFO. Seven seconds later both tracking stations make another sighting of the UFO. Based on these two sightings, the position and velocity of the UFO are determined. One second after the second sighting, a probe is launched at precisely the correct speed and heading to intercept the UFO. How is it done?

Measuring all distances in meters, Figure 1 shows the coordinates and the horizontal locations of the tracking stations and the launch site. The elevations are given by the third coordinates.

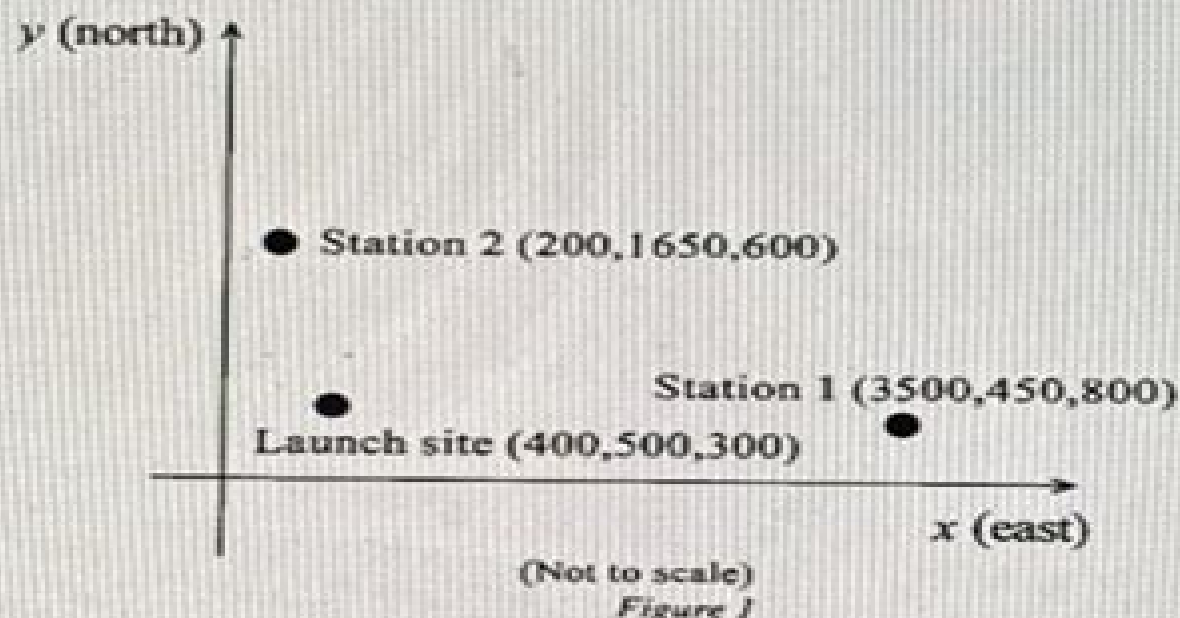


Table 1 shows the bearings of the UFO taken by the tracking stations in each of two sightings. For example, tracking station 1 first sights the UFO at 30° south of due west at an angle of 0.83° above the horizontal. (Note that the stations are on hills.)

Table 1

	Position	Sighting #1	Sighting #2
Station 1	(3500, 450, 800)	30° south of west, 0.83° above horizontal	Due west, 1.32° above horizontal
Station 2	(200, 1650, 600)	Due south, 4.70° above horizontal	80.5° south of west, 13° above horizontal

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