

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.

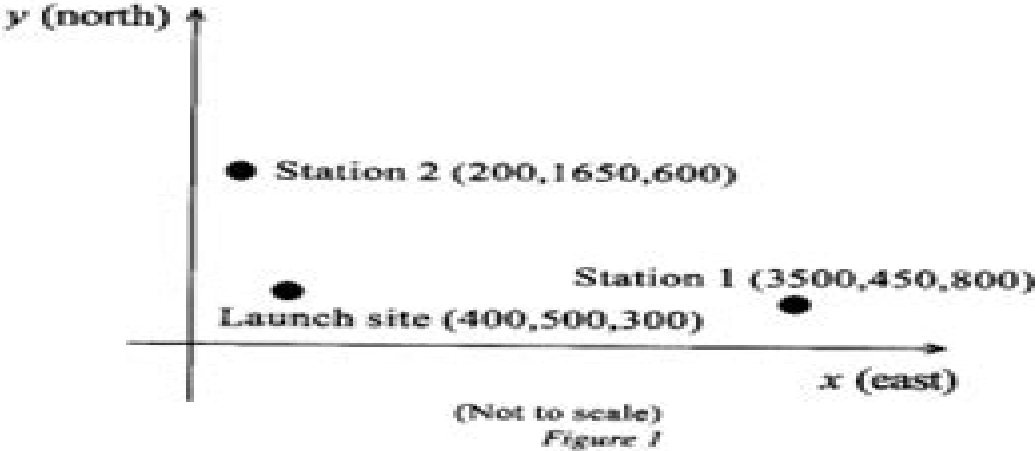


Table 1 shows the bearings of the UFO taken by the tracking stations in each of two sightings. For example, tracking station 1 first sights the UFO at 30° south of due west at an angle of 0.83° above the horizontal. (Note that the stations are on hills.)

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

1. Let $\mathbf{v}_1$ and $\mathbf{v}_2$ be vectors that point from tracking stations 1 and 2 to the UFO, respectively, for the first sighting. These vectors are not unique, so choose them to have the form $\langle a, \pm 1, b \rangle$. (Calculations should be done with at least three significant digits to minimize the propagation of errors.)
2. Find equations (in parametric form) of the two lines between tracking stations 1 and 2 and the UFO for the first sighting.
3. Find the point of intersection P_1 between the lines in Step 2. This intersection point is the position of the UFO at the time of the first sightings. Notice that two lines in space do not necessarily intersect. However if the bearings are accurate, you should find a point that very nearly lies on both lines.

Guided Project 6intercepting A Ufo

Lauren Gardner



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