

## 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.

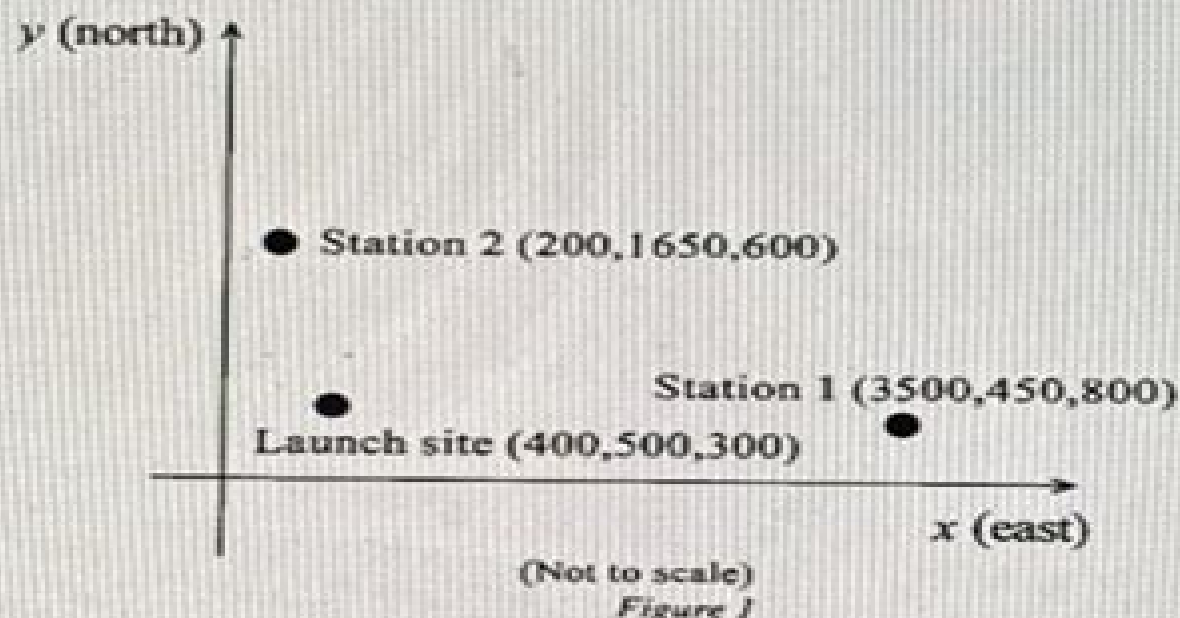


Table 1 shows the bearings of the UFO taken by the tracking stations in each of two sightings. For example, tracking station 1 first sights the UFO at  $30^\circ$  south of due west at an angle of  $0.83^\circ$  above the horizontal. (Note that the stations are on hills.)

Table 1

|           | Position         | Sighting #1   | Sighting #2   |
|-----------|------------------|---|---|
| Station 1 | (3500, 450, 800) | $30^\circ$ south of west, $0.83^\circ$ above horizontal | Due west, $1.32^\circ$ above horizontal                 |
| Station 2 | (200, 1650, 600) | Due south, $4.70^\circ$ above horizontal                | $80.5^\circ$ south of west, $13^\circ$ above horizontal |

# Guided Project 62 Intercepting A Ufo

**J. Allen Hynek**



**Guided Project 62 Intercepting A Ufo:**

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## **Table of Contents Guided Project 62 Intercepting A Ufo**

1. Understanding the eBook Guided Project 62 Intercepting A Ufo
  - The Rise of Digital Reading Guided Project 62 Intercepting A Ufo
  - Advantages of eBooks Over Traditional Books
2. Identifying Guided Project 62 Intercepting A Ufo
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Guided Project 62 Intercepting A Ufo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Guided Project 62 Intercepting A Ufo
  - Personalized Recommendations
  - Guided Project 62 Intercepting A Ufo User Reviews and Ratings
  - Guided Project 62 Intercepting A Ufo and Bestseller Lists
5. Accessing Guided Project 62 Intercepting A Ufo Free and Paid eBooks
  - Guided Project 62 Intercepting A Ufo Public Domain eBooks
  - Guided Project 62 Intercepting A Ufo eBook Subscription Services
  - Guided Project 62 Intercepting A Ufo Budget-Friendly Options

6. Navigating Guided Project 62 Intercepting A Ufo eBook Formats
  - ePub, PDF, MOBI, and More
  - Guided Project 62 Intercepting A Ufo Compatibility with Devices
  - Guided Project 62 Intercepting A Ufo Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Guided Project 62 Intercepting A Ufo
  - Highlighting and Note-Taking Guided Project 62 Intercepting A Ufo
  - Interactive Elements Guided Project 62 Intercepting A Ufo
8. Staying Engaged with Guided Project 62 Intercepting A Ufo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Guided Project 62 Intercepting A Ufo
9. Balancing eBooks and Physical Books Guided Project 62 Intercepting A Ufo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Guided Project 62 Intercepting A Ufo
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Guided Project 62 Intercepting A Ufo
  - Setting Reading Goals Guided Project 62 Intercepting A Ufo
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guided Project 62 Intercepting A Ufo
  - Fact-Checking eBook Content of Guided Project 62 Intercepting A Ufo
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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