

Law of Sines and Cosines Word Problems

1. Juan and Romella are standing at the seashore 10 miles apart. The coastline is a straight line between them. Both can see the same ship in the water. The angle between the coastline and the line between the ship and Juan is 35 degrees. The angle between the coastline and the line between the ship and Romella is 45 degrees. How far is the ship from Juan?



$$\frac{10}{\sin 100} = \frac{x}{\sin 45}$$

$$\sin 45 = \frac{10}{\sin 100} = x \approx 7.2 \text{ miles}$$

2. Jack is on one side of a 200-foot-wide canyon and Jill is on the other. Jack and Jill can both see the trail guide at an angle of depression of 60 degrees. How far are they from the trail guide?



a little too easy! Equiangular, equilateral triangle. So all lengths are equal.

\therefore length to trail guide is 200!

3. Tom, Dick, and Harry are camping in their tents. If the distance between Tom and Dick is 153 feet, the distance between Tom and Harry is 201 feet, and the distance between Dick and Harry is 175 feet, what is the angle between Dick, Harry, and Tom?

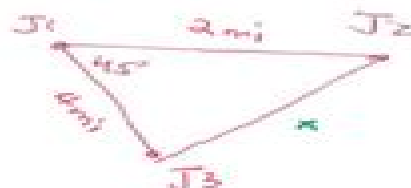


$$d^2 = c^2 + b^2 - 2cb \cos D$$

$$201^2 = 153^2 + 175^2 - 2(153)(175) \cos D$$

$$\frac{201^2 - 153^2 - 175^2}{-2(153)(175)} = \cos D =$$

4. Three boats are at sea: Jenny one (J1), Jenny two (J2), and Jenny three (J3). The crew of J1 can see both J2 and J3. The angle between the line of sight to J2 and the line of sight to J3 is 45 degrees. If the distance between J1 and J2 is 2 miles and the distance between J1 and J3 is 4 miles, what is the distance between J2 and J3?



$$x^2 = 2^2 + 4^2 - 2(2)(4) \cos 45$$

$$x^2 = 8.636$$

$$x = 2.94$$

Kuta Sine Law Word Problems

**Studiengemeinschaft Deutscher
Linguisten**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

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