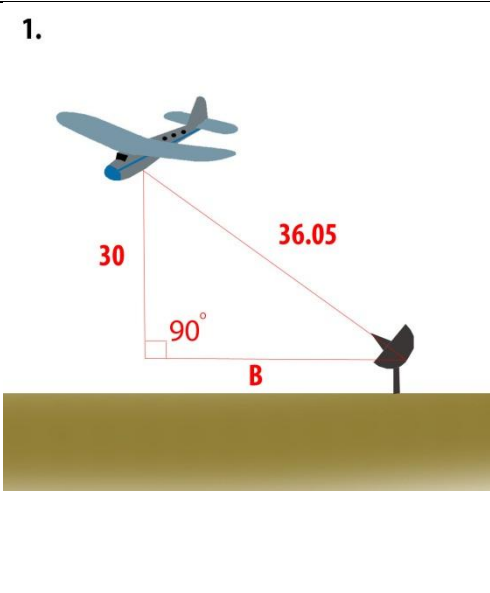
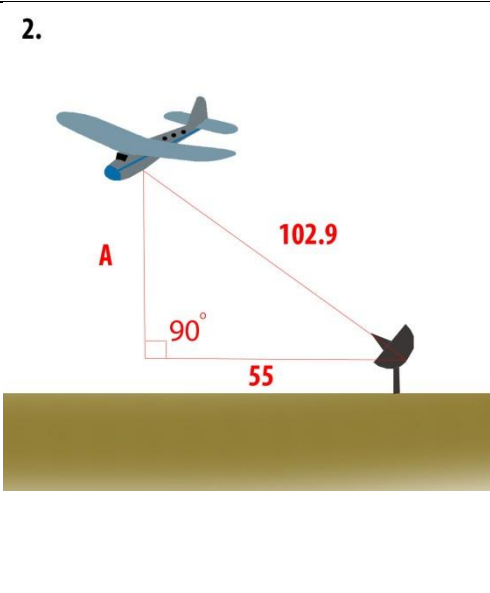
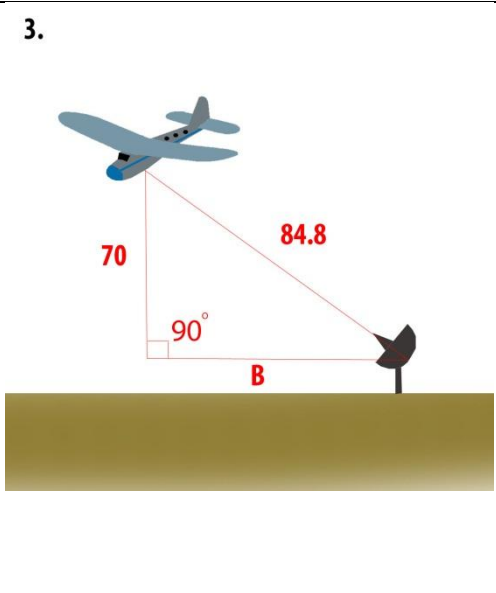
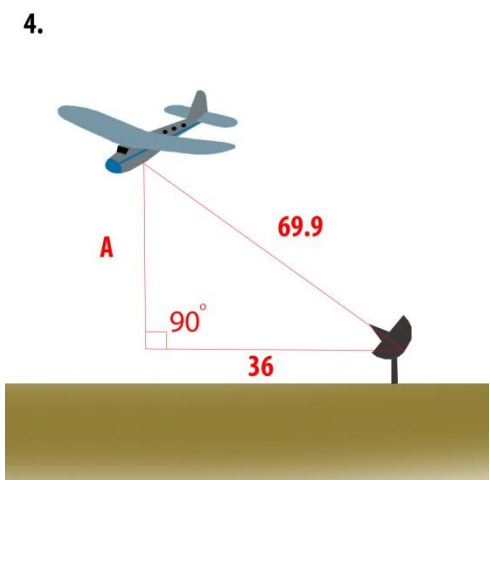
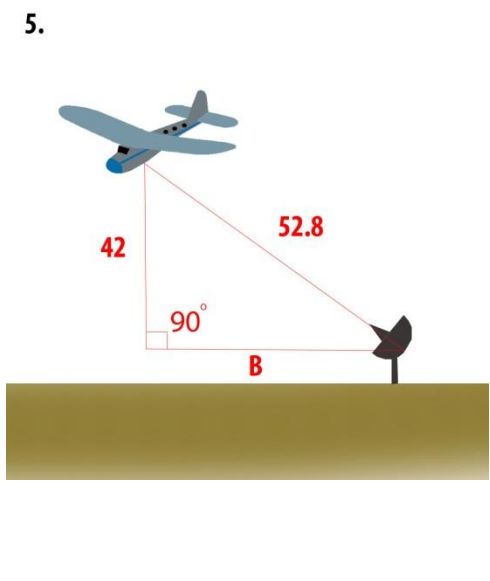
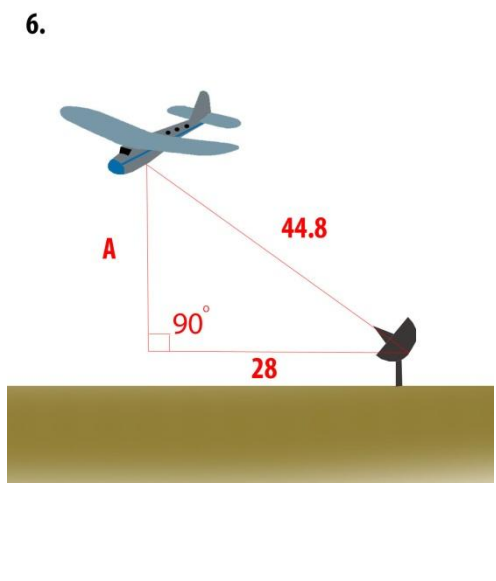


## Catching the Perfect SAR Waves: Radar System Evaluation

Instructions: Using your “Radar” System find the missing distance. Verify the distance using the Pythagorean Theorem. Provide both answers then calculate the percent error.

Formulas: *Pythagorean Theorem:  $a^2 + b^2 = c^2$*

$$\text{Percent Error} = \left( \frac{\text{Theoretical Value} - \text{Experimental Value}}{\text{Theoretical Value}} \right) \times 100$$

<p>1.</p> 	<p>2.</p> 	<p>3.</p> 
<p>4.</p> 	<p>5.</p> 	<p>6.</p> 

**Note: Experimental Values will vary slightly based on sensor calibration.**