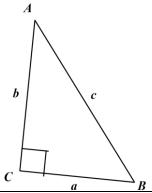
Objective:

A. Right Triangle Reminders

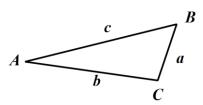


1. Right triangle trigonometric functions:

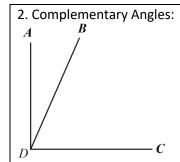
2. How to solve for a side if given 2 sides:

3. How to find an angle:

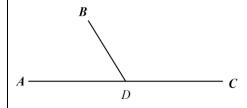
B. Information on all triangles



1. Triangle Sum Theorem:



3. Supplementary Angles:



4. How to solve if given AAS, ASA, ASS:

5. How to solve if given SAS, SSS:

C. Directions

Vocabulary: Bearing, heading, in the direction of

N	1. S44°W	2. N72°E
^		
$W \longleftrightarrow E$		
↓		
S		

D. Descriptions of angles and variables

1. Define your variables:	2. Line of sight:
3. Angle of Elevation:	4. Angle of depression:
3. Angle of Elevation:	4. Angle of depression:
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E. DRAW pictures!!!!!!

Example 2

Two tourists are 125 feet apart on opposite sides of a monument. The angles of elevation from the tourists to the top of the monument are 47° and 65° . Find the height of the monument to the nearest foot.

$\frac{\text{Example 3}}{\text{The distances from a boat to two seagulls on the shore are 100m and 80m respectively. If the angle between the two lines of sight is 55°, how far would one seagull have to walk to meet the other seagull?}$

Example 4

Observatory B is 20 miles east of observatory A in the middle of the dessert. A car leaves A and drives 16 miles towards a meteor sighting. At this time, it is sighted from B. If the car is N51°W from observatory B, how far from observatory B is the car? Round your answer to the nearest tenth of a mile.