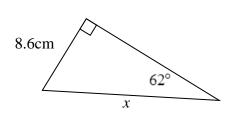
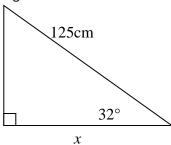
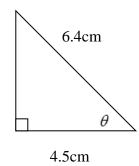
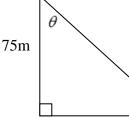
1. Find the side "x" to the nearest tenth in each of the following triangles.





2. Find the angle $\, heta\,$ to the nearest degree for each of the following triangles.

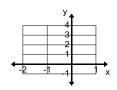




58m

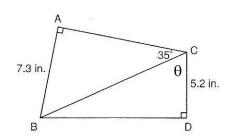
3. Solve ΔABC , a=5.0cm, b=12.0cm, angle $C=90^{\circ}$, Include a labeled diagram with your answer. (Round angles to the nearest degree and sides to nearest tenth).

4. The terminal arm of an angle, θ , in standard position passes through A(-1, 3). a) Determine the length of OA.



b) Determine the 3 primary trigonometric ratios to three decimal places.

5. Determine the measure of ∠BCD.



6. For each trig. ratio below, determine whether the angle is obtuse, acute or could be either.

- a) tanA = -1.6
- b) $\cos B = 0.9945$
- c) sinC = 0.35
- d) cosD = -0.7

7. Determine all possible values for angle Z (Z is between 0 and 180°).

a) $\cos Z = -0.93$

b) sinZ = 0.73

2. a)
$$\theta = 45^{\circ} \text{ b) } 38^{\circ}$$

3. a)
$$c = 13$$
, $A = 23^{\circ}$, $B = 67^{\circ}$

5.
$$h = 12.7 \text{ in.}, \theta = 66^{\circ}$$