## U2D5\_Mid unit review

Monday, February 26, 2018 12:04 PM



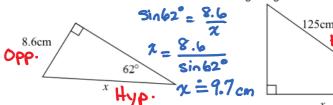
U2D5\_Mid unit review

## MAP 4CI

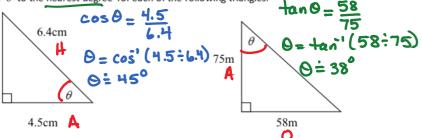
## Trig Mid Unit Review

Name:

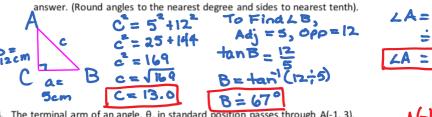
1. Find the side "x" to the nearest tenth in each of the following triangles.



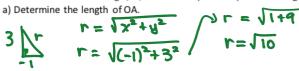
- 125cm 1= 106.0 cm
- 2. Find the angle  $\, heta\,$  to the nearest degree for each of the following triangles.

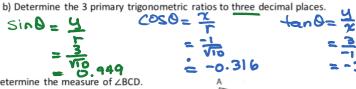


3. Solve  $\Delta ABC$  , a=5.0cm, b=12.0cm, angle  $\,C=90^{\circ}$  , Include a labeled diagram with your



4. The terminal arm of an angle,  $\theta$ , in standard position passes through A(-1, 3).







Determine the measure of ∠BCD.

Determine the measure of 2BCD.

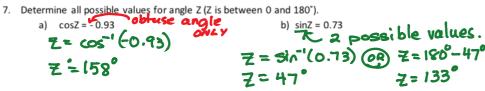
Sin 35° = 
$$\frac{7.3}{H}$$

H =  $\frac{7.3}{\sin 35}$ °

H =  $\frac{12.72716}{B}$ 

0 = cos (5.2 - 12.72716.)

- 6. For each trig. ratio below, determine whether the angle is obtuse, acute or could be either.
  - b) cosB = 0.9945 a) tanA = -1.6 d) cosD = -0.7c)  $\sin C = 0.35$ could be obluse obtuse acute either



<u>Answers</u>: 1.a) 9.7 cm b) 106.0 cm 2.a)  $\theta = 45^{\circ}$  b) 38° 3. a) c = 13,  $A = 23^{\circ}$ ,  $B = 67^{\circ}$ 4. a)  $\sqrt{10}$  b)  $\sin\theta = 0.949$ ,  $\cos\theta = -0.316$ ,  $\tan\theta = -3$  5. h = 12.7 in.,  $\theta = 66^{\circ}$  6. a) obtuse b) acute c) could be either d) obtuse 7. a) 158° b) 47° or 133°