

Student: \_\_\_\_\_  
Date: \_\_\_\_\_

Instructor: Joe Better's  
Course: Pre-Calculus Pre AP (Master Course)      Assignment: 8.1 Classwork Day 1

1. Use fundamental identities and/or the complementary angle theorem to find the exact value of the expression. Do not use a calculator.

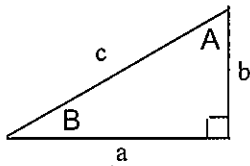
$$\sin 28^\circ - \cos 62^\circ$$

$$\sin 28^\circ - \cos 62^\circ = \underline{\hspace{2cm}}$$

(Simplify your answer, including any radicals. Use integers or fractions for any numbers in the expression.)

ID: 8.1.19

2. Use the right triangle and the given information to solve the triangle.



$$a = 5, \quad b = 12; \quad \text{find } c, A, \text{ and } B$$

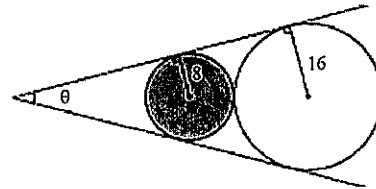
$$c = \underline{\hspace{2cm}} \quad (\text{Type a whole number.})$$

$$A = \underline{\hspace{2cm}}^\circ \quad (\text{Round to one decimal place as needed.})$$

$$B = \underline{\hspace{2cm}}^\circ \quad (\text{Round to one decimal place as needed.})$$

ID: 8.1.39

3. Find the value of the angle  $\theta$  in degrees rounded to the nearest tenth of a degree.



$$\theta = \underline{\hspace{2cm}}^\circ \quad (\text{Round to one decimal place as needed.})$$

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1. 0

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2. 13

22.6

67.4

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3. 38.9

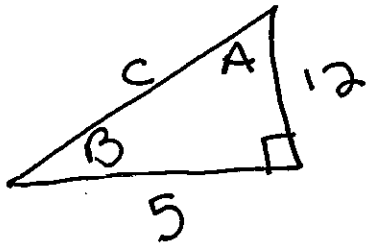
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8.1 cw day 1

①  $\sin 28 - \cos 62$

$= \cos 62 - \cos 62 = \boxed{0}$

②



$5^2 + 12^2 = c^2$

$c = 13$

$\tan A = \frac{5}{12}$

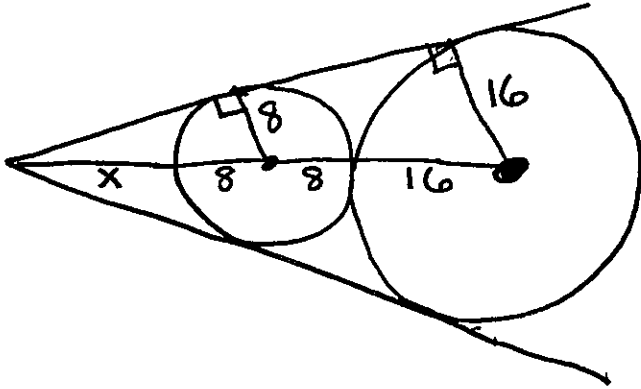
$A = 22.6$

$\tan B = \frac{12}{5}$

$B = 67.4$

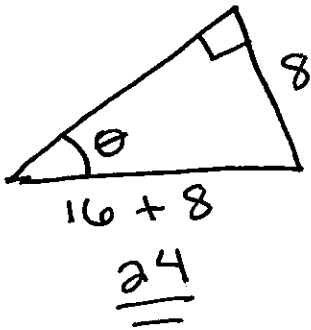
8.1 cw day 1

(3)



$$\frac{x+8}{8} = \frac{x+8+8+16}{16}$$

$$x = 16$$

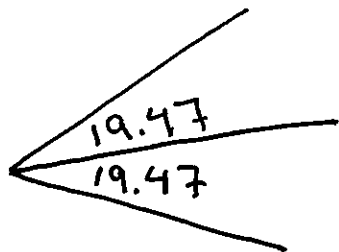


$$8^2 + y^2 = 24^2$$

$$y = \sqrt{512}$$

$$\sin \theta = \frac{8}{24}$$

$$\theta = 19.47$$



$$19.47(2) = \boxed{38.9^\circ}$$