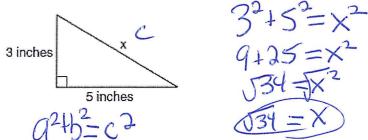
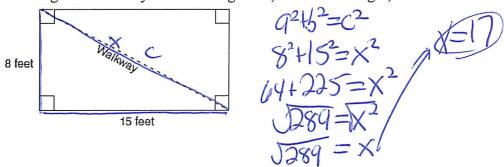
Right Triangles Review Sheet

1. What is the value of x, in inches, in the right triangle below?



2. Nancy's rectangular garden is represented in the diagram below. If a diagonal walkway crosses her garden, what is its length, in feet?



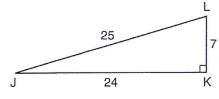
3. In right triangle JKL in the diagram below, KL = 7, JK = 24, JL = 25, and $\angle K = 90^{\circ}$. Which statement is not true?

1)
$$\tan L = \frac{24}{7} \frac{Q}{A}$$

$$2 \cos L = \frac{24}{25} \stackrel{A}{H} \stackrel{7}{\cancel{a}\cancel{5}} \times$$

3)
$$\tan J = \frac{7}{24} \frac{O}{A}$$

4)
$$\sin J = \frac{7}{25} \frac{O}{H}$$



4. In right triangle ABC shown below, AC = 12, BC = 16, and AB = 20.

Which equation is not correct?

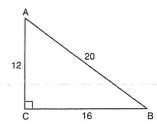
1)
$$\cos A = \frac{12}{20} \stackrel{A}{H}$$

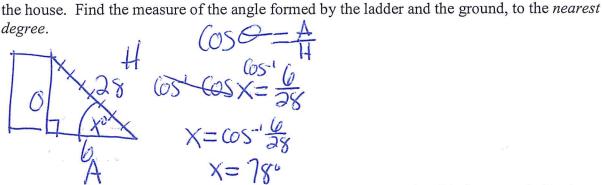
$$(2) \quad \tan A = \frac{16}{12} \stackrel{\bigcirc}{A}$$

3)
$$\sin B = \frac{12}{20} \frac{\text{H}}{\text{H}}$$

2)
$$\tan A = \frac{16}{12} \frac{O}{A}$$

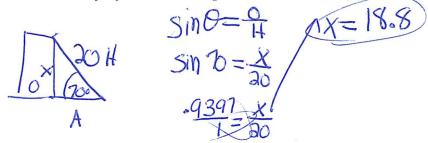
3) $\sin B = \frac{12}{20} \frac{O}{A}$
 $\tan B = \frac{16}{20} \frac{O}{A} \frac{12}{10}$



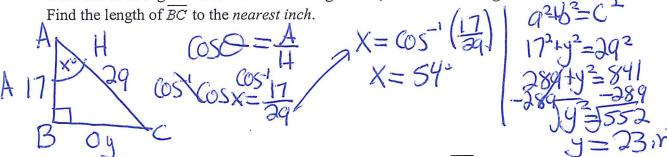


6. A 20-foot support post leans against a wall, making a 70° angle with the ground. To the nearest tenth of a foot, how far up the wall will the support post reach?

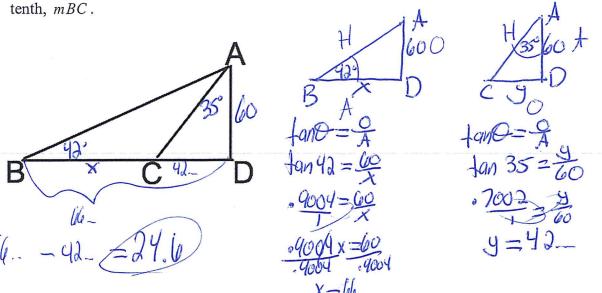
5 A 28-foot ladder is leaning against a house. The bottom of the ladder is 6 feet from the base of

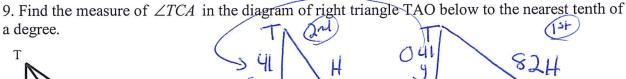


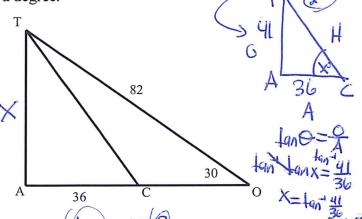
7. In right triangle ABC shown below, AC = 29 inches, AB = 17 inches, and $m\angle ABC = 90$. Find the number of degrees in the measure of angle BAC, to the nearest degree.

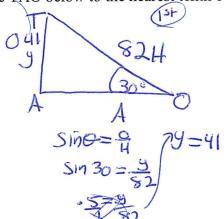


8. In the diagram below, $m\angle CAD = 35$, $m\angle ABD = 42$, and $m\overline{AD} = 60$. Find to the nearest tenth, $m\overline{BC}$.







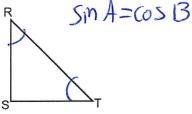


10. If
$$\sin(x+15) = \cos 45$$
, determine the value of x .

11. If
$$\sin(2x+7)^\circ = \cos(4x-7)^\circ$$
, what is the value of x?

$$A = COSB$$
 $A = COSB$
 $A = GOSB$
 $A =$

- I: $\sin R = \cos S$
- II: $\cos T = \sin R$ III: $\sin T = \cos R$
- IV: $\tan R = \tan S \times$



- 1) I and IV
- 3) I, II, and III
- 2) II and III
- 4) III only
- 13. In right triangle ABC with the right angle at C, $\sin A = 2x + 0.1$ and $\cos B = 4x 0.7$. Determine and state the value of x. Explain your answer.

 Sin A = COSB The Sine of one acute to angle in a right transfer

