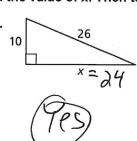


Ch.9 Skills Review KEY

Date

Find the value of x. Then tell whether the side lengths form a Pythagorean triple.

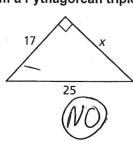
5 12 13



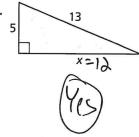
2.

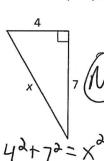


X=41



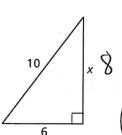
$$X = 18.33$$





X=8.06

6.

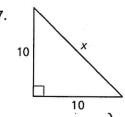


3,4,5

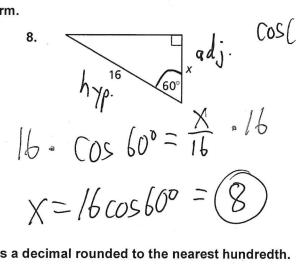


Find the value of x. Write your answer in simplest form.

7.



102+102=X2



Cos()= adj

Use the figure. Write your answer as a fraction and as a decimal rounded to the nearest hundredth.

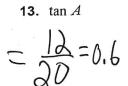
$$=\frac{12}{37}=0.32$$

10. $\cos A$

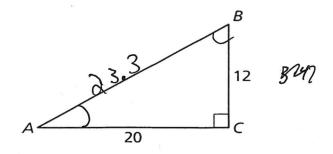


$$=\frac{35}{37}=.95$$
 $=\frac{12}{37}=0.32$

Find tan A and tan B. Write each answer as a fraction and as a decimal rounded to the nearest tenth.



$$= \frac{20}{12} = 1.66$$

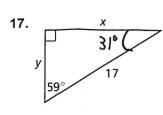


Find the measure of each angle to the nearest degree.

$$\begin{array}{c}
 15. & m \angle A & 16. & m \angle B \\
 + q \wedge A & = \frac{12}{20} & 319 \\
 A & = \frac{12}{20} & 319 \\
 A & = \frac{12}{20} & = 30.97^{\circ}
 \end{array}$$

Solve the Triangle. Find the values of the missing angles and of x and y.

Round your answer to the nearest tenth.

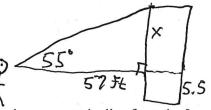


17.
$$\sin 59 = \frac{x}{17}.17$$
17. $\sin 59 = x$

17.
$$\cos 59^{\circ} = \frac{4}{17} \cdot 17$$

 $17 \cos 59 = 4$
 $4 = 8.76^{\circ}$

18. You look up at a 55° angle to see the top of a building. The vertical distance from the ground to your eye is 5.5 feet and the distance from you to the building is 57 feet. Estimate the height of the building.



19. A bird sits on top of a lamppost. The angle made by the lamppost and a line from the feet of the bird to the feet of an observer standing away from the lamppost is 55°. The distance from the lamppost to the observer is 25 feet. Estimate the height of the lamppost?

