

Unit 6 Study Guide

Complete each trigonometric ratio using words. Choose from the multiple choice answers below.

_____ 1. $\sin A =$

A. $\frac{opp}{hyp}$

B. $\frac{adj}{hyp}$

C. $\frac{opp}{adj}$

_____ 2. $\cos A =$

A. $\frac{opp}{hyp}$

B. $\frac{adj}{hyp}$

C. $\frac{opp}{adj}$

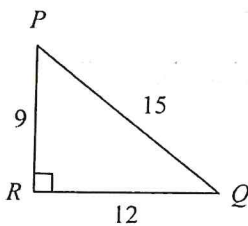
_____ 3. $\tan A =$

A. $\frac{opp}{hyp}$

B. $\frac{adj}{hyp}$

C. $\frac{opp}{adj}$

_____ 4. Write the sine ratio for $\angle P$.



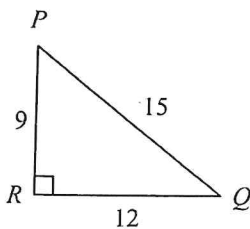
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A. $\sin P = \frac{3}{5}$

B. $\sin P = \frac{4}{5}$

C. $\sin P = \frac{4}{3}$

_____ 5. Write the cosine ratio for $\angle P$.



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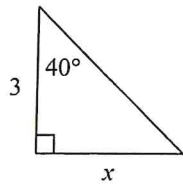
A. $\cos P = \frac{4}{5}$

B. $\cos P = \frac{4}{3}$

C. $\cos P = \frac{3}{5}$

Name: _____

10.



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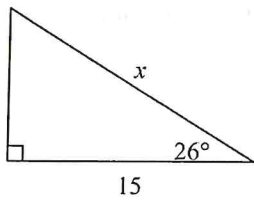
A. 2.5

B. 1.9

C. 3.6

Find the value of x . Round to the nearest tenth.

11.



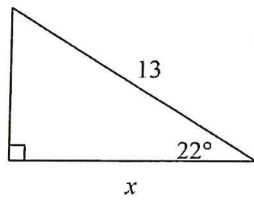
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A. 17.2

B. 16.7

C. 13.5

12.



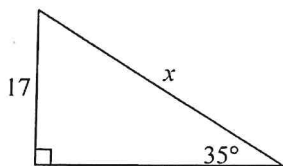
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A. 14.1

B. 12.2

C. 12.1

13.



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A. 29.6

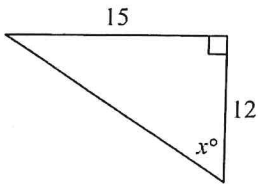
B. 29.8

C. 10.2

Name: _____

Find the value of x to the nearest degree.

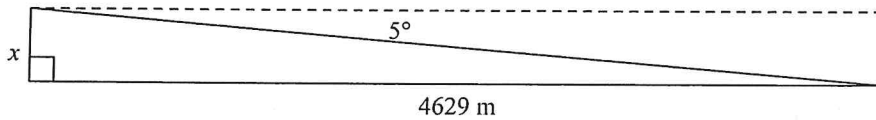
18.



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- A. 39 B. 51 C. 34

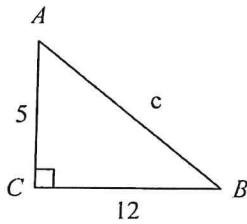
19. An airplane pilot over the Pacific sights an atoll at an angle of depression of 5° . At this time, the horizontal distance from the airplane to the atoll is 4629 meters. What is the height of the plane to the nearest meter?



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- A. $x = 403$ m B. $x = 405$ m C. $x = 4611$ m

20. Solve the right triangle. Round answers to the nearest tenth.



Not drawn to scale

- A. $c = 13$
 $m\angle A = 67.4^\circ$
 $m\angle B = 22.6^\circ$
- B. $c = 13$
 $m\angle A = 22.6^\circ$
 $m\angle B = 67.4^\circ$
- C. $c = 17$
 $m\angle A = 65.4^\circ$
 $m\angle B = 24.6^\circ$