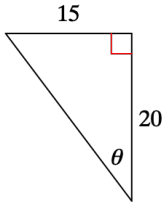
Secondary 3 Name Key. Period _____

# 9.1 HW: Trigonometry Review

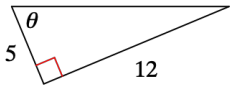
**Find the value of the trig function indicated.**

1. $\sin\theta$



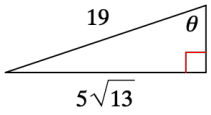

$\frac{3}{5}$

2. $\tan\theta$



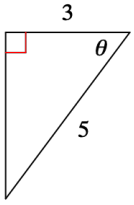

$\frac{12}{5}$

3. $\tan\theta$



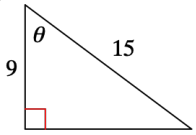

$\frac{5\sqrt{13}}{6}$

4. $\cos\theta$



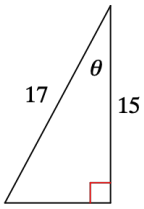

$\frac{3}{5}$

5. $\cos\theta$




$\frac{3}{5}$

6. $\sin\theta$




$\frac{8}{17}$

7. Find $\sin\theta$ if $\cos\theta = \frac{\sqrt{23}}{12}$

$\frac{11}{12}$

8. Find $\tan\theta$ if $\sin\theta = \frac{4}{5}$

$\frac{4}{3}$

9. Find $\tan\theta$ if $\cos\theta = \frac{4}{5}$

$\frac{3}{4}$

10. Find $\cos\theta$ if $\sin\theta = \frac{9}{13}$

$\frac{2\sqrt{22}}{13}$

11. Find $\cos\theta$ if $\tan\theta = \frac{9\sqrt{7}}{35}$

$\frac{5\sqrt{7}}{16}$

12. Find $\cos\theta$ if $\sin\theta = \frac{4}{5}$

$\frac{3}{5}$

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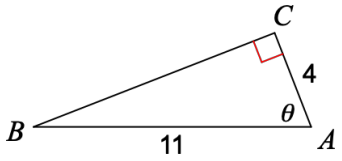
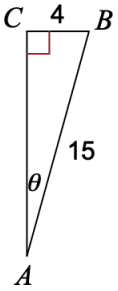
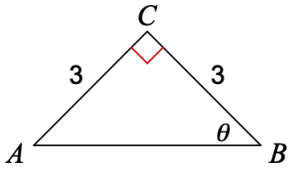
**Find the measure of each angle indicated. Round to the nearest whole number.**

13. 

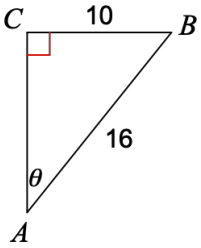

69°

14. 


21°

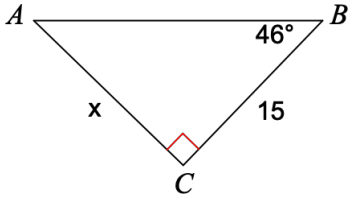
15. 


45°

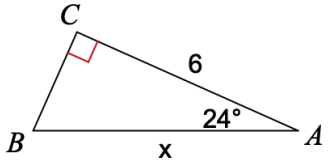
16. 


39°

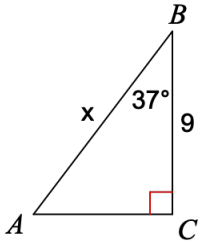
**Find the measure of each side indicated. Round to the nearest hundredth.**

17. 

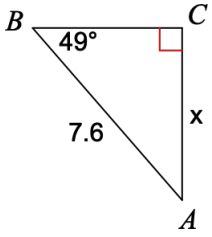

X = 15.53

18. 


X = 6.57

19. 


X = 11.27

20. 


X = 5.74

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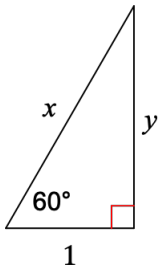
**Find the missing side lengths. Leave your answers as radicals in simplest form. THIS MEANS NO DECIMALS!!!**

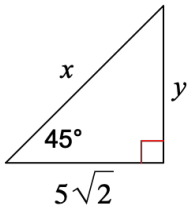
21.




$x = 2$

$y = \sqrt{3}$

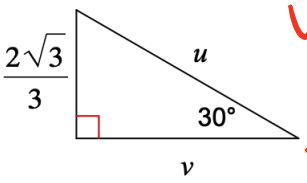
22.




$x = 10$

$y = 5\sqrt{2}$

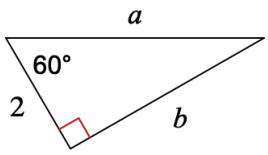
23.




$u = \frac{\sqrt{3}}{3}$

$v = 2$

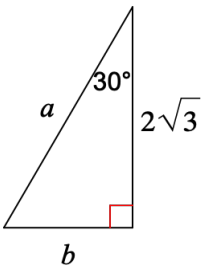
24.




$a = 4$

$b = 2\sqrt{3}$

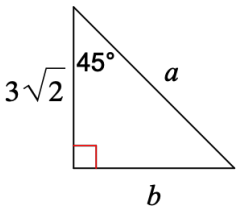
25.




$a = 4$

$b = 2$

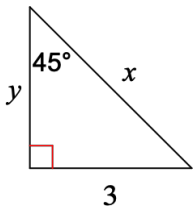
26.




$b = 3\sqrt{2}$

$a = 6$

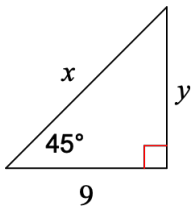
27.




$x = 3\sqrt{2}$

$y = 3$

28.




$x = 9\sqrt{2}$

$y = 9$

STOP!