Accelerated Precalculus Name_____

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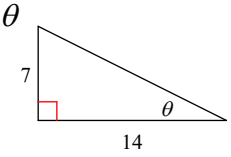
Right Triangle Trig Review Practice

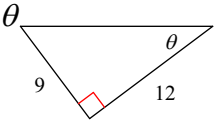
Date_____ Period____

Find the value of the trig function indicated.

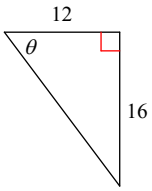
1) cos θ



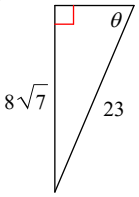
2) tan θ



3) sin θ



4) tan θ



In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

5) Find tan A if $a = 16,\ c = 16\sqrt{2}$

6) Find cos A if $b = 8,\ a = 15$

7) Find sin A if $b = 9,\ a = 9\sqrt{3}$

8) Find tan A if $b = 8,\ c = 17$

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Find the value of the trig function indicated.

9) Find $\cos\theta$ if $\sin\theta = \frac{3}{4}$

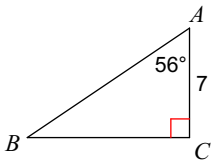
10) Find $\tan\theta$ if $\cos\theta = \frac{7}{25}$

11) Find $\sin\theta$ if $\cos\theta = \frac{5}{13}$

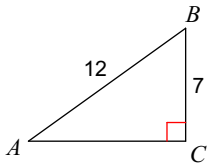
12) Find $\cos\theta$ if $\sin\theta = \frac{4}{5}$

Solve each triangle. Round answers to the nearest tenth.

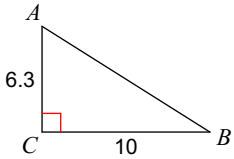
13)



14)



15)



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Answers to Right Triangle Trig Review Practice

1) $\frac{2\sqrt{5}}{5}$

2) $\frac{3}{4}$

3) $\frac{4}{5}$

4) $\frac{8\sqrt{7}}{9}$

5) 1

6) $\frac{8}{17}$

7) $\frac{\sqrt{3}}{2}$

8) $\frac{15}{8}$

9) $\frac{\sqrt{7}}{4}$

10) $\frac{24}{7}$

11) $\frac{12}{13}$

12) $\frac{3}{5}$

13) $m\angle B = 34°,\ a = 10.4,\ c = 12.5$

14) $m\angle A = 35.7°,\ m\angle B = 54.3°,\ b = 9.7$

15) $m\angle A = 57.8°,\ m\angle B = 32.2°,\ c = 11.8$

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