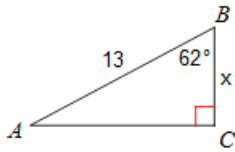


# Lessons 6.1 – 6.3 Review

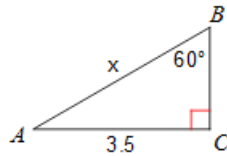
Name \_\_\_\_\_ Period \_\_\_\_\_

Find the measure of each side indicated. Round to the nearest tenth.

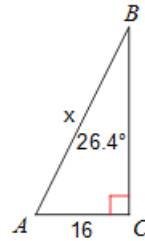
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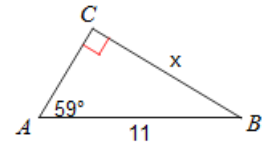
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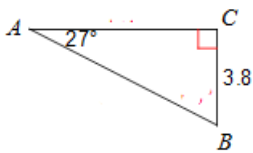
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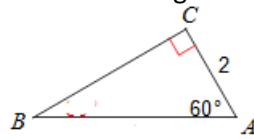
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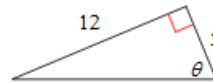
5. Solve the triangle.



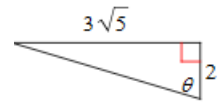
6. Solve the triangle.



7. Find the six trig functions for  $\theta$ .



8. Find the six trig functions for  $\theta$ .



Draw an angle with the given measure in standard position.

9.  $155^\circ$

10.  $-610^\circ$

11.  $165^\circ$

12.  $-235^\circ$

13.  $-\frac{7\pi}{9}$

14.  $-\frac{17\pi}{6}$

15.  $-\frac{7\pi}{4}$

16.  $\frac{5\pi}{4}$

Find the reference angle.

17.  $210^\circ$

18.  $190^\circ$

19.  $\frac{7\pi}{6}$

20.  $\frac{4\pi}{3}$

Convert each degree measure into radians and each radian measure into degrees.

21.  $150^\circ$

22.  $20^\circ$

23.  $\frac{11\pi}{18}$

24.  $\frac{3\pi}{4}$

Find a positive and a negative coterminal angle for each given angle.

25.  $30^\circ$

26.  $-175^\circ$

27.  $120^\circ$

28.  $-270^\circ$

29.  $\pi$

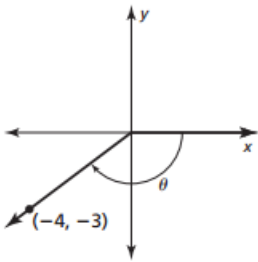
30.  $\frac{19\pi}{6}$

31.  $\frac{2\pi}{3}$

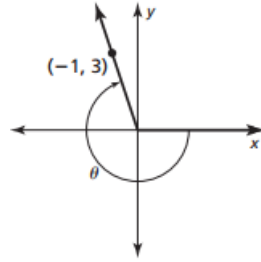
32.  $\frac{\pi}{2}$

Find the sine, cosine, and tangent of the angle  $\theta$ .

33.

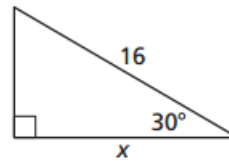


34.

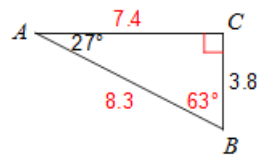
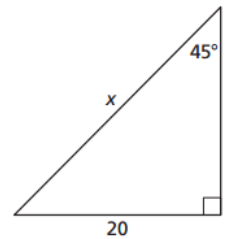


Find the exact value of x for the given triangles below.

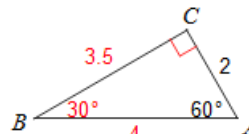
35.



36.



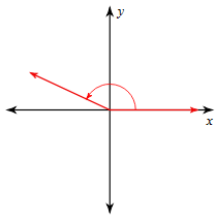
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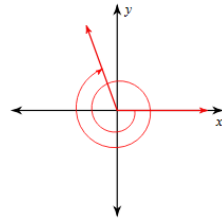
1. 6.1 2. 4 3. 36 4. 9.4 5.

12/5,  $\csc \theta = 13/5$ ,  $\sec \theta = 13/12$ ,  $\cot \theta = 5/12$  7.  $\sin \theta = 5/13$ ,  $\cos \theta = 12/13$ ,  $\tan \theta = 5/12$ ,  $\csc \theta = 13/5$ ,  $\sec \theta = 13/12$ ,  $\cot \theta = 5/12$  8.  $\sin \theta = \frac{3\sqrt{5}}{7}$ ,  $\cos \theta = 2/7$ ,  $\tan \theta = \frac{3\sqrt{5}}{2}$ ,  $\csc \theta = \frac{7\sqrt{5}}{15}$ ,  $\sec \theta = 7/2$ ,  $\cot \theta = \frac{2\sqrt{5}}{15}$

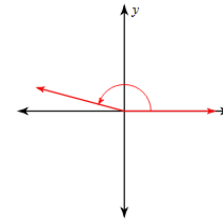
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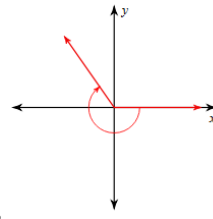
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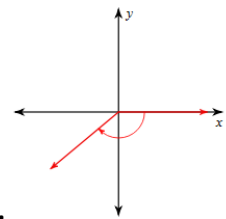
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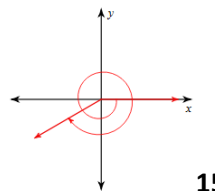
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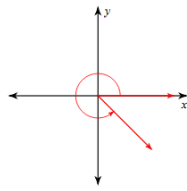
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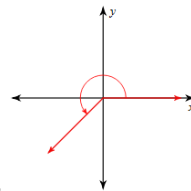
14.



15.



16.



17.  $30^\circ$  18.  $10^\circ$  19.  $\frac{\pi}{6}$  20.  $\frac{\pi}{3}$  21.  $\frac{5\pi}{6}$  22.  $\frac{\pi}{9}$  23.  $110^\circ$  24.  $135^\circ$

25.  $390^\circ$  and  $-330^\circ$  26.  $185^\circ$  and  $-535^\circ$  27.  $480^\circ$  and  $-240^\circ$  28.  $90^\circ$  and  $-630^\circ$  29.  $3\pi$  and  $-\pi$  30.  $\frac{7\pi}{6}$  and  $-\frac{5\pi}{6}$  31.  $\frac{8\pi}{3}$  and  $-\frac{4\pi}{3}$  32.  $\frac{5\pi}{2}$  and  $-\frac{3\pi}{2}$  33.  $\sin \theta = -3/5$ ,  $\cos \theta = -4/5$ ,  $\tan \theta = 3/4$  34.  $\sin \theta = \frac{3\sqrt{10}}{10}$ ,  $\cos \theta = \frac{-\sqrt{10}}{10}$ ,  $\tan \theta = -3$  35.  $8\sqrt{3}$  36.  $20\sqrt{2}$