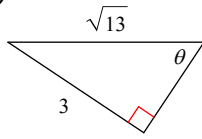


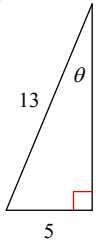
12.1-12.2 Extra Practice Problems

Find the value of the trig function indicated.

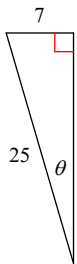
1) $\cos \theta$



3) $\sec \theta$



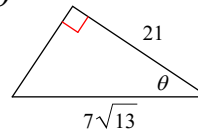
5) $\csc \theta$



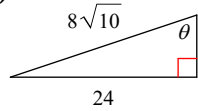
7) Find $\sec \theta$ if $\cos \theta = \frac{4}{5}$

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

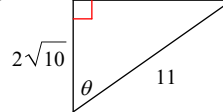
2) $\tan \theta$



4) $\sin \theta$



6) $\cot \theta$

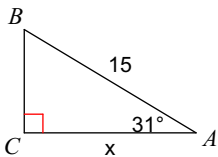


8) Find $\csc \theta$ if $\sec \theta = \frac{13}{5}$

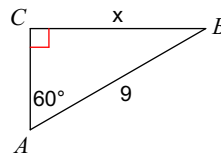
10) Find $\cot \theta$ if $\csc \theta = \sqrt{17}$

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

11)

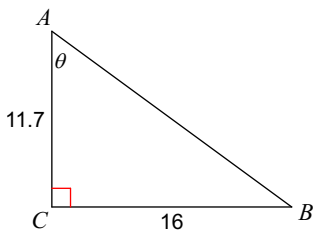


12)

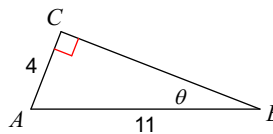


Find the measure of each angle indicated. Round to the nearest tenth.

13)

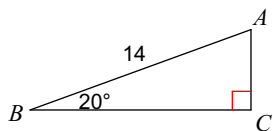


14)

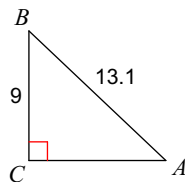


Solve each triangle. Round answers to the nearest tenth.

15)

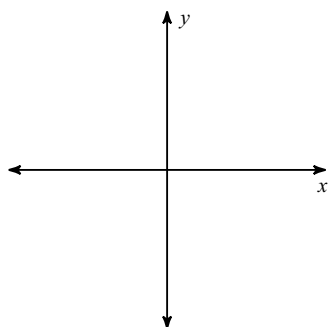


16)

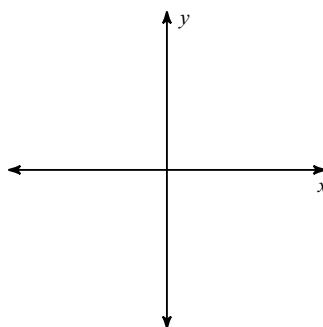


Draw an angle with the given measure in standard position.

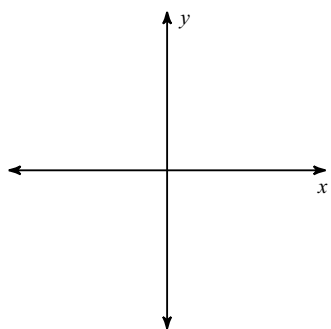
17) -145°



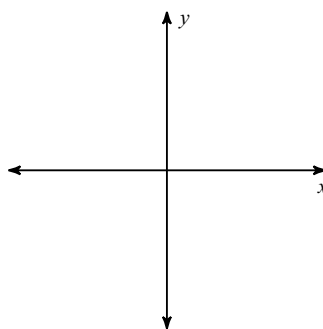
18) 480°



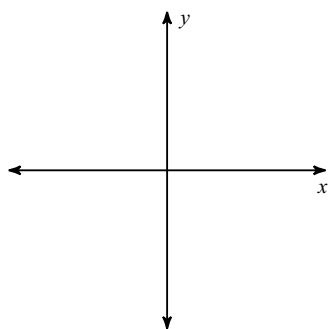
19) -345°



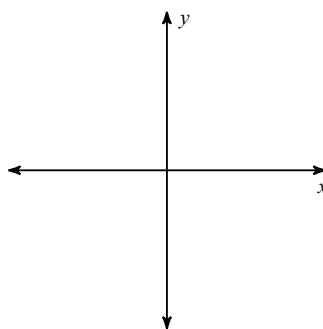
20) 350°



21) $-\frac{5\pi}{6}$

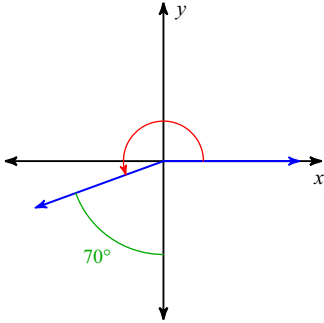


22) $\frac{5\pi}{3}$

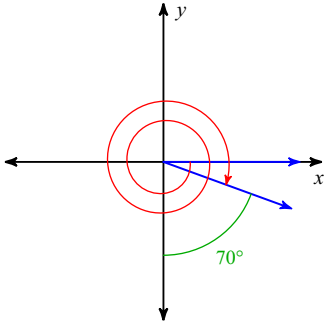


Find the measure of each angle.

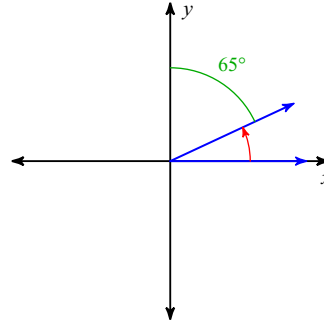
23)



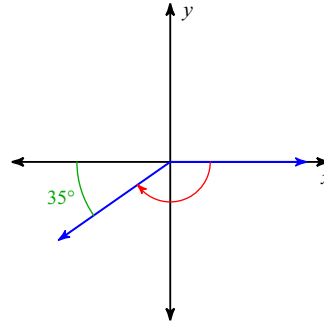
25)



24)



26)



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

27) -660°

28) $\frac{11\pi}{6}$

29) -390°

30) 120°

31) $\frac{4\pi}{3}$

32) $\frac{5\pi}{4}$

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

33) 45°

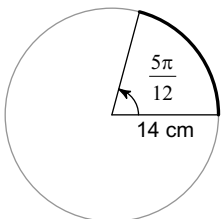
34) 234°

35) 0°

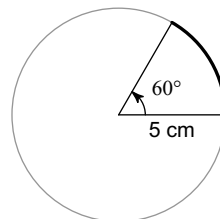
36) -675°

Find the length of each arc.

37)



38)



39) The back of a moving truck is 3 feet off of the ground. What length does a ramp off the back of the truck need to be in order for the angle of elevation of the ramp to be 20° ?

40) A bicycle tire makes 8 revolutions in one second. The tire has a radius of 15 inches. Find the angle θ in radians through which the tire rotates in one second.

Answers to 12.1-12.2 Extra Practice Problems (ID: 1)

1) $\frac{2\sqrt{13}}{13}$

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

5) $\frac{25}{7}$

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

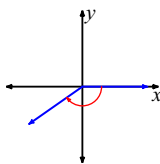
9) $\frac{4}{5}$

11) 12.9

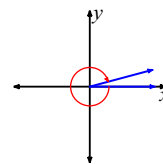
13) 53.8°

15) $m\angle A = 70^\circ$, $b = 4.8$, $a = 13.2$

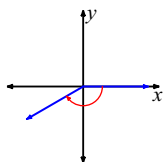
17)



19)



21)



23) 200°

25) -740°

27) $-\frac{11\pi}{3}$

29) $-\frac{13\pi}{6}$

31) 240°

33) 405° and -315°

35) 360° and -360°

37) $\frac{35\pi}{6}$ cm

39) About 8.8 ft