Algebra 2 Name_____ ID: 1

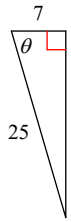
12.1-12.3 Practice Quiz

Date_____ Period____

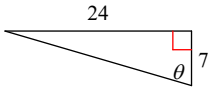
SHOW ALL WORK TO RECEIVE FULL CREDIT.

Find the value of the trig function indicated.

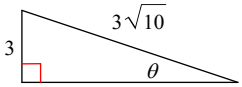
1) sec θ



2) csc θ



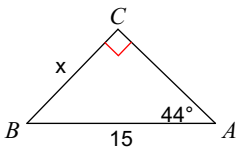
3) sin θ



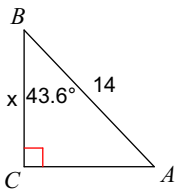
4) Find csc θ if $\cos\theta = \frac{3\sqrt{13}}{13}$

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

5)

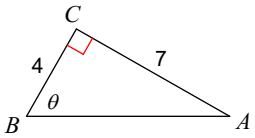


6)

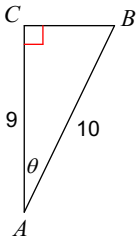


Find the measure of each angle indicated. Round to the nearest tenth.

7)

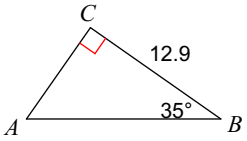


8)

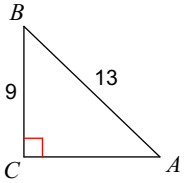


Solve each triangle. Round answers to the nearest tenth.

9)

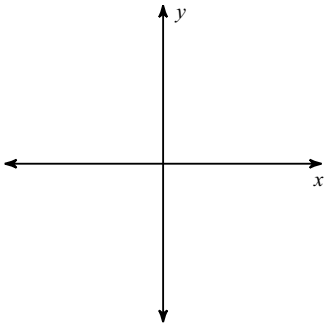


10)

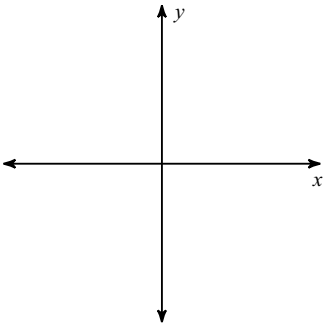


Draw an angle with the given measure in standard position.

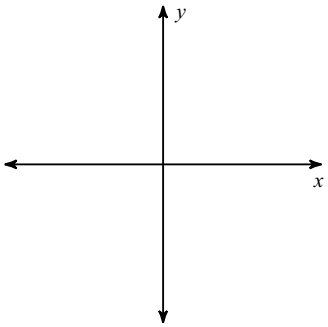
11) 670°



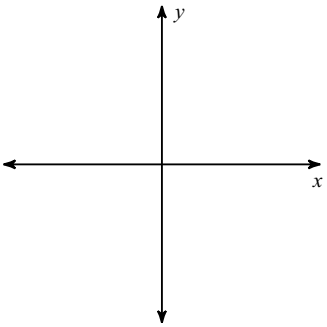
12) −625°



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

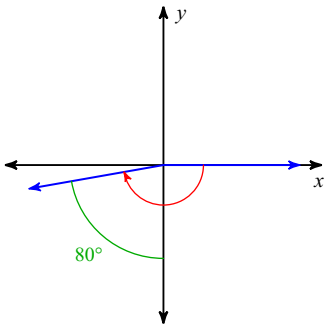


14) $\frac{3\pi}{4}$

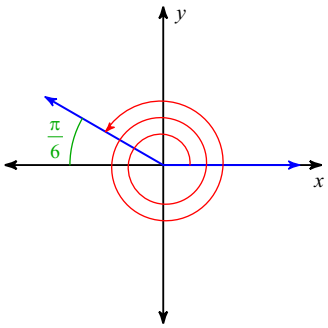


Find the measure of each angle. Answers should be stated in the same units as given in the problem.

15)



16)



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

17) $-\frac{73\pi}{36}$

18) -165°

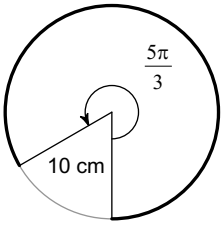
Find a positive and a negative coterminal angle for each given angle.

19) −510°

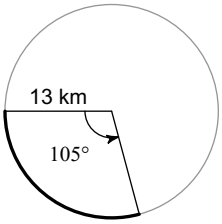
20) $\frac{25\pi}{9}$

Find the length of each arc. Round your answers to the nearest tenth.

21)

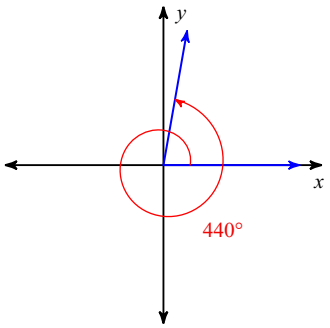


22)

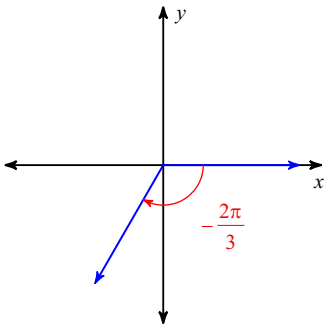


Find the reference angle.

23)

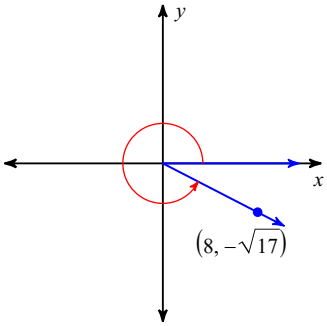


24)

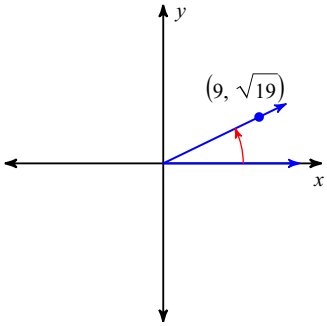


Use the given point on the terminal side of angle θ to find the value of the trigonometric function indicated.

25) sin θ

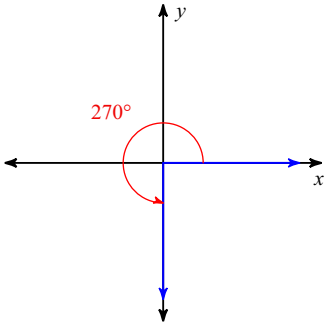


26) csc θ

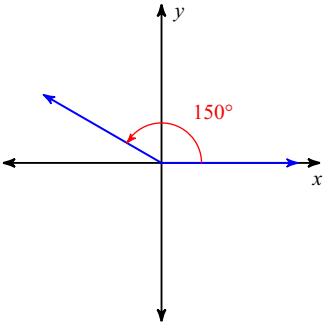


Find the exact value of each trigonometric function.

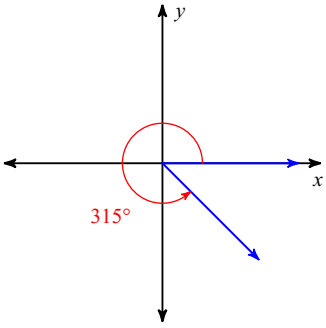
27) cos θ



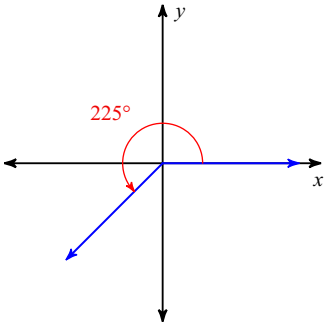
28) cot θ



29) sec θ



30) sin θ



Answers to 12.1-12.3 Practice Quiz (ID: 1)

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

2) $\frac{25}{24}$

3) $\frac{\sqrt{10}}{10}$

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

5) 10.4

6) 10.1

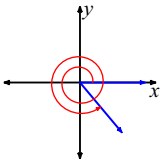
7) 60.3°

8) 25.8°

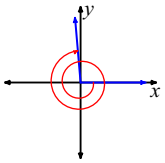
9) $m\angle A = 55°,\ b = 9,\ c = 15.7$

10) $m\angle B = 46.2°,\ m\angle A = 43.8°,\ b = 9.4$

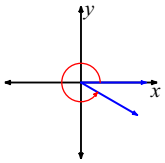
11)



12)



13)



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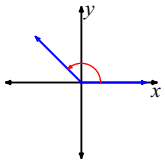

15) $-170°$

16) $\frac{29\pi}{6}$

17) -365°

18) $-\frac{11\pi}{12}$

19) 210° and $-150°$

20) $\frac{7\pi}{9}$ and $-\frac{11\pi}{9}$

21) 52.4 cm

22) 23.8 km

23) 80°

24) $\frac{\pi}{3}$

25) $-\frac{\sqrt{17}}{9}$

26) $\frac{10\sqrt{19}}{19}$

27) 0

28) $-\sqrt{3}$

29) $\sqrt{2}$

30) $-\frac{\sqrt{2}}{2}$