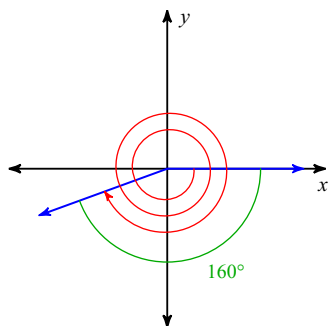
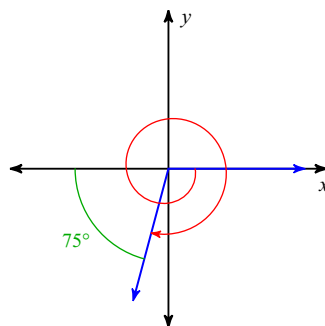


Find the measure of each angle.

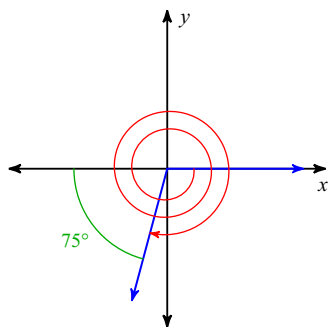
1)



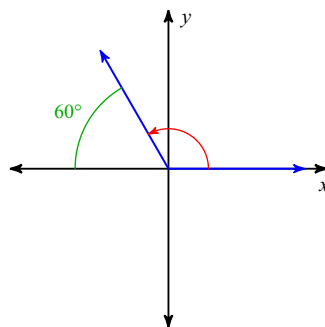
2)



3)



4)



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

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

6) $-\frac{5\pi}{4}$

7) 640°

8) $\frac{7\pi}{6}$

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

9) -165°

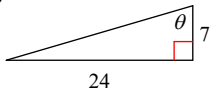
10) 495°

11) -335°

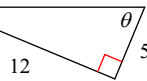
12) -615°

Find the value of the trig function indicated.

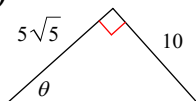
13) $\tan \theta$



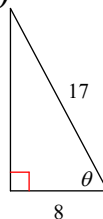
14) $\sin \theta$



15) $\csc \theta$

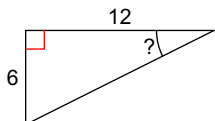


16) $\cot \theta$

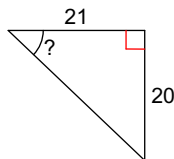


Find the measure of the indicated angle to the nearest degree.

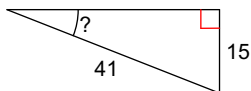
17)



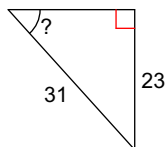
18)



19)

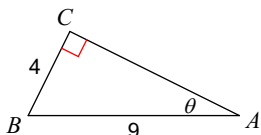


20)

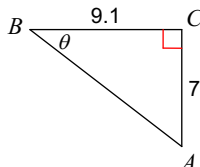


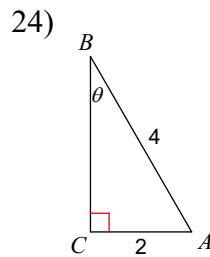
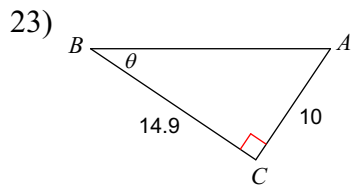
Find the measure of each angle indicated. Round to the nearest tenth.

21)



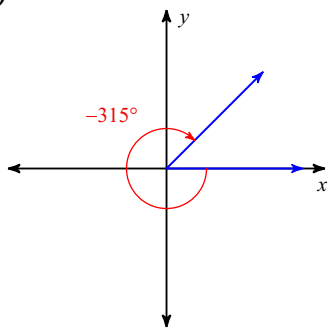
22)



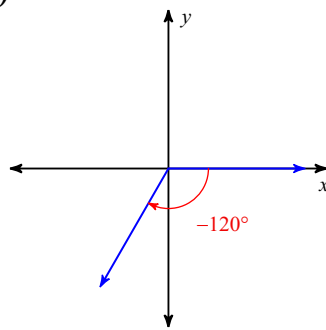


Find the exact value of each trigonometric function.

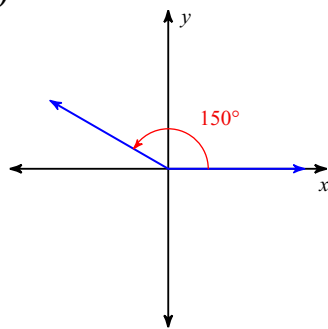
25) $\cot \theta$



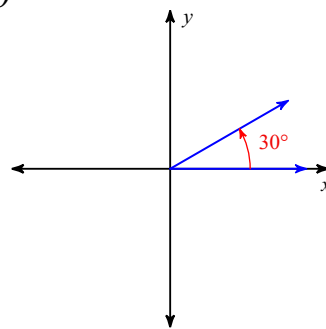
26) $\csc \theta$



27) $\sec \theta$

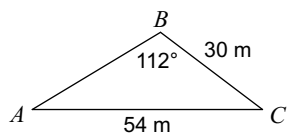


28) $\cos \theta$

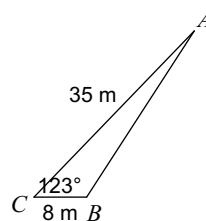


Find each measurement indicated. Round your answers to the nearest tenth.

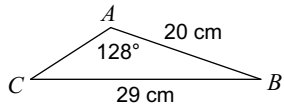
29) Find $m\angle A$



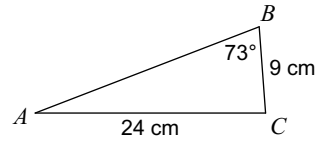
30) Find $m\angle A$



31) Find $m\angle C$

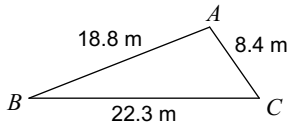


32) Find $m\angle A$

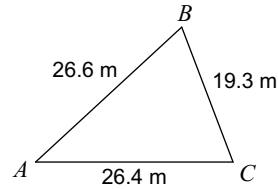


Solve each triangle. Round your answers to the nearest tenth.

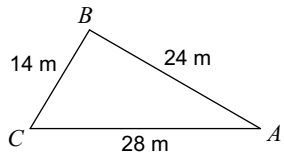
33)



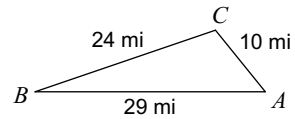
34)



35)

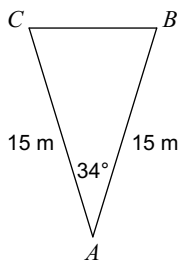


36)

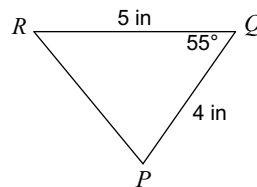


Find the area of each triangle to the nearest tenth.

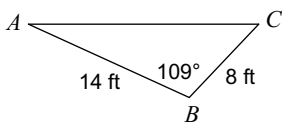
37)



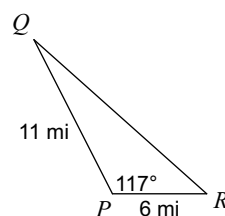
38)



39)



40)



Answers to Trigonometry, Rationals, Sequences/Series PART 1 (ID: 1)

- | | | | |
|---|--|---------------------------------|----------------------------------|
| 1) -880° | 2) -465° | 3) -825° | 4) 120° |
| 5) -30° | 6) -225° | 7) $\frac{32\pi}{9}$ | 8) 210° |
| 9) 195° and -525° | 10) 135° and -225° | 11) 25° and -695° | 12) 105° and -255° |
| 13) $\frac{24}{7}$ | 14) $\frac{12}{13}$ | 15) $\frac{3}{2}$ | 16) $\frac{8}{15}$ |
| 17) 27° | 18) 44° | 19) 21° | 20) 48° |
| 21) 26.4° | 22) 37.6° | 23) 33.9° | 24) 30° |
| 25) 1 | 26) $-\frac{2\sqrt{3}}{3}$ | 27) $-\frac{2\sqrt{3}}{3}$ | 28) $\frac{\sqrt{3}}{2}$ |
| 29) 31° | 30) 11.1° | 31) 32.9° | 32) 21° |
| 33) $m\angle C = 55.1^\circ, m\angle A = 103.4^\circ, m\angle B = 21.5^\circ$ | 34) $m\angle A = 42.7^\circ, m\angle B = 68.1^\circ, m\angle C = 69.2^\circ$ | | |
| 35) $m\angle C = 59^\circ, m\angle A = 30^\circ, m\angle B = 91^\circ$ | 36) $m\angle A = 51^\circ, m\angle B = 18.9^\circ, m\angle C = 110.1^\circ$ | | |
| 37) 62.9 m^2 | 38) 8.2 in^2 | 39) 52.9 ft^2 | 40) 29.4 mi^2 |