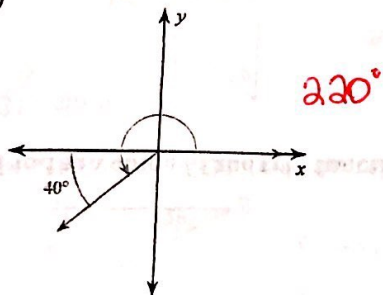


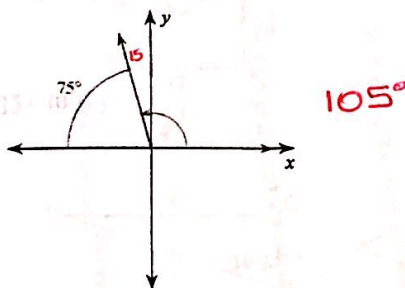
REVIEW

Find the measure of each angle.

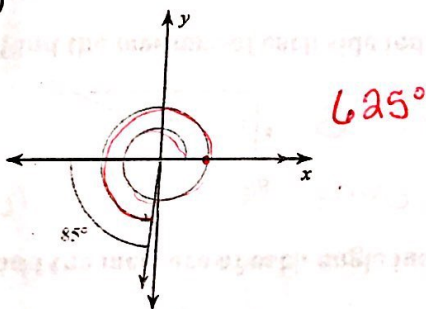
1)



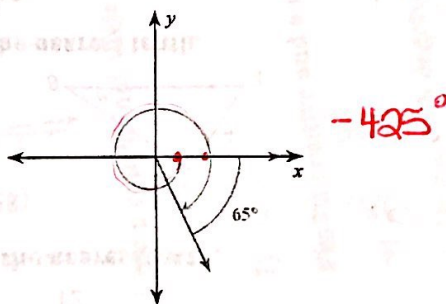
2)



3)



4)



Find a coterminal angle between 0° and 360° .

5) -375° 345°

6) 375° 15°

7) -250° 110°

8) 680° 320°

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

9) 235° 595°
 -125°

10) -330° 30°
 -690°

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

11) -250° $-\frac{25\pi}{18}$

12) 180° π

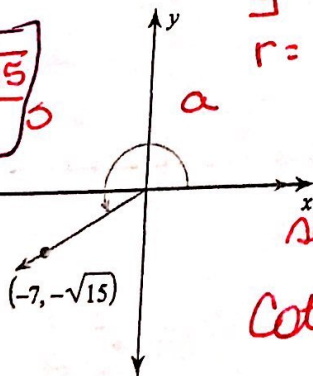
13) -110° $-\frac{11\pi}{18}$

14) 210° $\frac{7\pi}{6}$

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

15) $\sin \theta$

$\sin \theta = -\frac{\sqrt{15}}{8}$



$x = -7$
 $y = -\sqrt{15}$
 $r = 8$
 $\cos \theta = -\frac{7}{8}$

$\sec \theta = -\frac{8}{7}$

$\cot \theta = \frac{7\sqrt{15}}{15}$

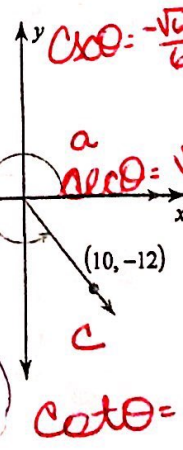
$\cos \theta = -\frac{7}{8}$
 $\tan \theta = \frac{\sqrt{15}}{7}$

16) $\tan \theta$

$\sin \theta = \frac{-6\sqrt{61}}{61}$

$\cos \theta = \frac{5\sqrt{61}}{61}$

$\tan \theta = -\frac{6}{5}$



$x = 10$
 $y = -12$
 $r = 2\sqrt{61}$
 $\cos \theta = \frac{\sqrt{61}}{6}$

$\sec \theta = \frac{6}{\sqrt{61}}$

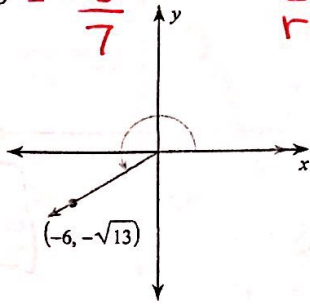
$\tan \theta = \frac{-12}{10}$

$\tan \theta = -\frac{6}{5}$

$\cot \theta = -\frac{5}{6}$

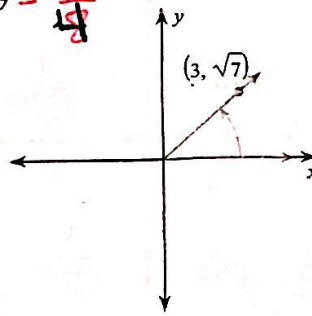
Write all 6 trig ratios

17) $\cos \theta = -\frac{6}{7}$



$x = -6$
 $y = -\sqrt{13}$
 $r = 7$

18) $\cos \theta = \frac{3}{8}$

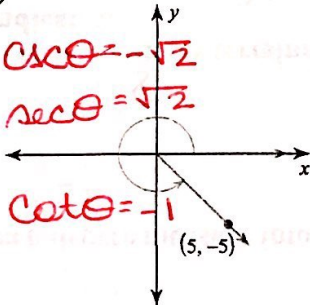


$x = 3$
 $y = \sqrt{7}$
 $r = 8$

$3^2 + \sqrt{7}^2 = r^2$
 $9 + 7 = r^2 = 16$
 $r = 4$

19) $\tan \theta$

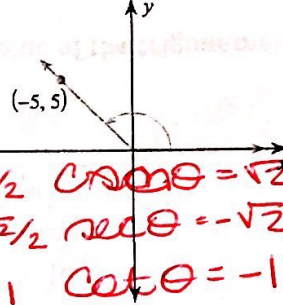
$\sin \theta = -\frac{\sqrt{2}}{2}$ $\csc \theta = -\sqrt{2}$
 $\cos \theta = \frac{\sqrt{2}}{2}$ $\sec \theta = \sqrt{2}$
 $\tan \theta = -1$ $\cot \theta = -1$



$x = 5$
 $y = -5$
 $r = 5\sqrt{2}$

20) $\sin \theta$

$\sin \theta = \frac{\sqrt{2}}{2}$ $\csc \theta = \sqrt{2}$
 $\cos \theta = -\frac{\sqrt{2}}{2}$ $\sec \theta = -\sqrt{2}$
 $\tan \theta = -1$ $\cot \theta = -1$



$x = -5$
 $y = 5$
 $r = 5\sqrt{2}$

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

21) $150^\circ = \frac{5\pi}{6}$

23) $210^\circ = \frac{7\pi}{6}$

25) $250^\circ = \frac{25\pi}{18}$

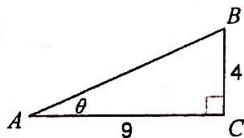
22) $-\frac{5\pi}{9} = -100^\circ$

24) $\frac{7\pi}{9} = 140^\circ$

26) $\frac{11\pi}{12} = 165^\circ$

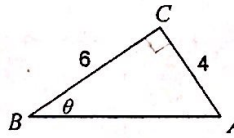
Find the measure of each angle indicated. Round to the nearest tenth.

27)



$\tan \theta = \frac{4}{9}$
 $\theta = 24.0^\circ$

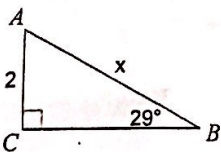
28)



$\tan \theta = \frac{4}{6}$
 33.7°

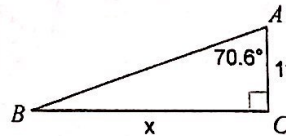
Find the measure of each side indicated. Round to the nearest tenth.

29)



$\sin 29 = \frac{2}{x}$
 $x = 4.1$

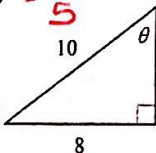
30)



$\tan 70.6 = \frac{x}{11}$
 $x = 31.2$

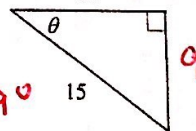
Find the value of the trig function indicated.

31) $\sin \theta = \frac{4}{5}$



$\theta = 53.1$

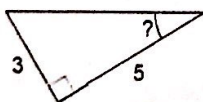
32) $\tan \theta = \frac{3}{4}$



$\theta = 36.9^\circ$

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

33)



$\tan \theta = \frac{3}{5}$
 31°