

Review - No Calculator

Find the exact value of each trigonometric function.

1) $\sin \frac{3\pi}{2}$

2) $\cos 225^\circ$

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

4) $\sin \pi$

5) $\tan -\frac{2\pi}{3}$

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

7) $\csc -\frac{3\pi}{2}$

8) $\cos \frac{4\pi}{3}$

9) $\sec -45^\circ$

10) $\sec 240^\circ$

11) $\tan 300^\circ$

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

13) $\sin \frac{\pi}{3}$

14) $\cos -\frac{7\pi}{4}$

Find the value of the trig function indicated.

15) Find $\cot \theta$ if $\csc \theta = \frac{13}{5}$

16) Find $\sin \theta$ if $\cot \theta = 2$

17) Find $\tan \theta$ if $\sec \theta = \frac{5\sqrt{2}}{7}$

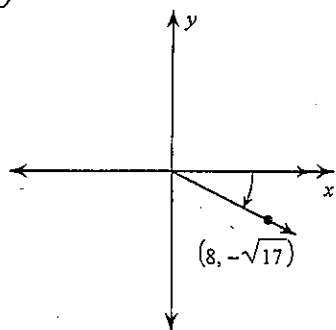
18) Find $\sin \theta$ if $\csc \theta = \frac{5}{4}$

19) Find $\cos \theta$ if $\tan \theta = \frac{3}{2}$

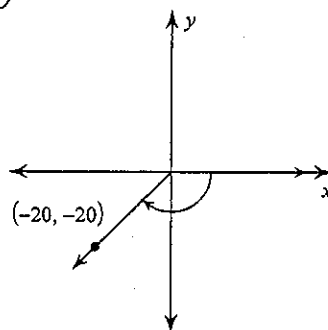
20) Find $\sec \theta$ if $\tan \theta = 2\sqrt{2}$

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

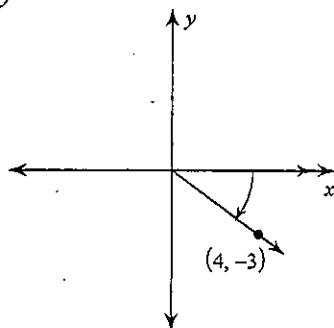
21) $\cos \theta$



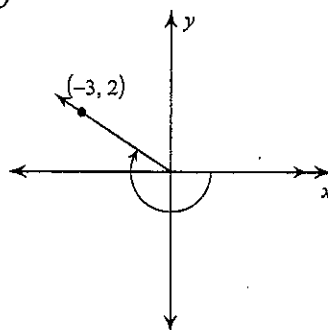
22) $\sin \theta$



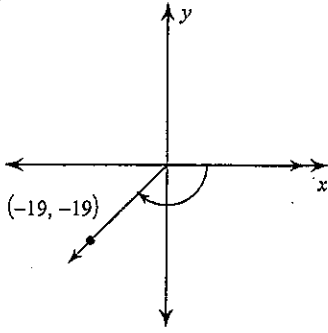
23) $\sec \theta$



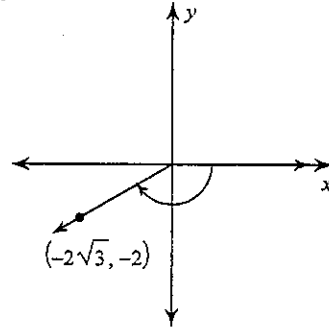
24) $\cot \theta$



25) $\tan \theta$



26) $\csc \theta$



27) $\sin \theta; (3, -4)$

28) $\cos \theta; (6, -12)$

29) $\csc \theta; (-8, \sqrt{17})$

30) $\cot \theta; (-12, 15)$

Solve each equation for $0 \leq \theta < 360$.

31) $\tan \theta = 1$

32) $\cos \theta = -\frac{\sqrt{2}}{2}$

33) $-\frac{\sqrt{3}}{2} = \cos \theta$

34) $\tan \theta = \sqrt{3}$

$$35) \sin \theta = -\frac{1}{2}$$

$$36) 0 = \tan \theta$$

$$37) 4 - \frac{3}{4} \cdot \tan \theta = \frac{16 - \sqrt{3}}{4}$$

$$38) -5 + \sin \theta = -5$$

$$39) -5 - \frac{1}{2} \cdot \cos \theta = \frac{-20 - \sqrt{3}}{4}$$

$$40) 1 - 2\cos \theta = 0$$

$$41) 3 - \frac{1}{2} \cdot \cos \theta = 3$$

$$42) 1 + \frac{1}{4} \cdot \sin \theta = \frac{4 + \sqrt{3}}{4}$$

$$43) -5 + 6\sin \theta = -2$$

$$44) 9 = 5 - 4\cos \theta$$