1. Which trig functions are positive for angles terminating in Quadrant IV?	**2.** Which trig functions are negative for angles terminating in Quadrant II?
3. If $\cos\theta < 0$, which quadrant(s) could the terminal side of θ lie?	**4.** If $\csc\theta > 0$, which quadrant(s) could the terminal side of θ lie?
5. If $\tan\theta < 0$ and $\sec\theta > 0$, which quadrant(s) could the terminal side of θ lie?	**6.** If $\sin\theta < 0$ and $\cot\theta < 0$, which quadrant(s) could the terminal side of θ lie?

Directions: Find the exact value for each trigonometric function. Use reference angles when necessary.

7. $\sin 60^\circ$	**8.** $\cos 225^\circ$	**9.** $\tan 330^\circ$
10. $\cot 150^\circ$	**11.** $\sec 135^\circ$	**12.** $\tan 210^\circ$
13. $\sec 270^\circ$	**14.** $\csc 315^\circ$	**15.** $\sin 240^\circ$
16. $\tan \frac{7\pi}{6}$	**17.** $\cos \frac{3\pi}{4}$	**18.** $\csc \frac{5\pi}{3}$
19. $\sin \frac{\pi}{6}$	**20.** $\cot \frac{5\pi}{6}$	**21.** $\sec \frac{11\pi}{6}$

Find the exact value (no decimals) of the given function. Use the unit circle.

22. sin 180°= _____

23. sin 225°=_____

24. cos 240°=_____

25. cot 0°=_____

26. tan 315°=_____

27. tan 270°=_____

28. cos 120°=_____

29. cot 300°=_____

30. sec 150°=_____

31. sec 0°=_____

32. csc 45°=_____

32. csc 330°=_____

33. sin $\frac{\pi}{3}$ =_____

34. csc $\frac{11\pi}{4}$=_____

35. sec $\frac{11\pi}{6}$=_____

36. tan $\frac{5\pi}{4}$=_____

37. cos $\frac{2\pi}{3}$=_____

38. cot $\frac{7\pi}{4}$=_____

39. sin $\frac{\pi}{6}$=_____

40. tan $\frac{\pi}{2}$=_____

41. sec $\frac{3\pi}{2}$=_____