Find two angles $\theta$ in degrees that would be solutions to the following.

1) $\sec \theta = 2$

2) $\cot \theta = \frac{\sqrt{3}}{3}$

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

4) $\tan \theta = 0$

5) $\frac{\sqrt{3}}{3} = \tan \theta$

6) $\cot \theta = \sqrt{3}$

7) $\cos \theta = -\frac{1}{2}$

8) $\cos \theta = \frac{\sqrt{2}}{2}$

9) $0 = \cos \theta$

10) $\csc \theta = \sqrt{2}$

Find two angles $\theta$ in radians that would be solutions to the following.

11) $0 = \cot \theta$

12) $\tan \theta = -1$

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

14) $\cot \theta = -1$

15) $2 = \csc \theta$

16) $2 = \sec \theta$

17) $\cos \theta = 0$

18) $\frac{\sqrt{2}}{2} = \sin \theta$

19) $\csc \theta = -2$

20) $\sin \theta = -\frac{2\sqrt{3}}{3}$
Find two angles \( \theta \) in degrees that would be solutions to the following.

1) \( \sec \theta = 2 \)  
   \[ \{60, 300\} \]

2) \( \cot \theta = \frac{\sqrt{3}}{3} \)  
   \[ \{60, 240\} \]

3) \( -\frac{\sqrt{2}}{2} = \sin \theta \)  
   \[ \{225, 315\} \]

4) \( \tan \theta = 0 \)  
   \[ \{0, 180\} \]

5) \( \frac{\sqrt{3}}{3} = \tan \theta \)  
   \[ \{30, 210\} \]

6) \( \cot \theta = \sqrt{3} \)  
   \[ \{30, 210\} \]

7) \( \cos \theta = -\frac{1}{2} \)  
   \[ \{120, 240\} \]

8) \( \cos \theta = \frac{\sqrt{2}}{2} \)  
   \[ \{45, 315\} \]

9) \( 0 = \cos \theta \)  
   \[ \{90, 270\} \]

10) \( \csc \theta = \sqrt{2} \)  
    \[ \{45, 135\} \]

Find two angles \( \theta \) in radians that would be solutions to the following.

11) \( 0 = \cot \theta \)  
    \[ \left\{ \frac{\pi}{2}, \frac{3\pi}{2} \right\} \]

12) \( \tan \theta = -1 \)  
    \[ \left\{ \frac{3\pi}{4}, \frac{7\pi}{4} \right\} \]

13) \( \cos \theta = -\frac{2\sqrt{3}}{3} \)  
    \[ \text{No solution.} \]

14) \( \cot \theta = -1 \)  
    \[ \left\{ \frac{3\pi}{4}, \frac{7\pi}{4} \right\} \]

15) \( 2 = \csc \theta \)  
    \[ \left\{ \frac{\pi}{6}, \frac{5\pi}{6} \right\} \]

16) \( 2 = \sec \theta \)  
    \[ \left\{ \frac{\pi}{3}, \frac{5\pi}{3} \right\} \]

17) \( \cos \theta = 0 \)  
    \[ \left\{ \frac{\pi}{2}, \frac{3\pi}{2} \right\} \]

18) \( \frac{\sqrt{2}}{2} = \sin \theta \)  
    \[ \left\{ \frac{\pi}{4}, \frac{3\pi}{4} \right\} \]

19) \( \csc \theta = -2 \)  
    \[ \left\{ \frac{7\pi}{6}, \frac{11\pi}{6} \right\} \]

20) \( \sin \theta = -\frac{2\sqrt{3}}{3} \)  
    \[ \text{No solution.} \]