

pg. 774 # 2-32 even

2.  $\pi, 0, -\pi$ .  $0 + \pi n$   $n$  is any integer

4.  $\sin$  is  $y$ .  $y$  is  $\frac{1}{2}$  at  $30^\circ$   $30 + 360n$   
 $y$  is  $+$  in QI & QII  $150 + 360n$

8.  $\tan 1$   $\tan$  is positive in QI & QIII  
 $\tan = 1$  at  $\pi/4$  and  $5\pi/4$ .

(if you use your calculator because the rest of the angles in this section aren't on the unit circle...)

$\tan^{-1}(1) = .785$  in QI. QIII is  $\pi$  away.  
 $.785 + \pi = 3.93$  in QIII

$.785 + 2\pi n$  &  $3.93 + 2\pi n$

16.  $2\sin\theta = 1$

$\sin\theta = \frac{1}{2}$   $\sin$  is  $y$ .  $y$  is positive in QI & QII.

$\sin^{-1}\frac{1}{2} = \pi/6$  &  $5\pi/6$

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2.  $0 + \pi n$

4.  $30 + 360n$   
 $150 + 360n$

6.  $210 + 360n$   
 $330 + 360n$

8.  $0.79 + 2\pi n$   
 $3.93 + 2\pi n$

10.  $-0.89 + 2\pi n$   
 $4.04 + 2\pi n$

12.  $2.67 + 2\pi n$   
 $3.61 + 2\pi n$

14.  $1.37 + 2\pi n$   
 $4.57 + 2\pi n$

16.  $\frac{\pi}{6}, \frac{5\pi}{6}$

18.  $\frac{\pi}{4}, \frac{5\pi}{4}$

20.  $0.84, 5.44$

22.  $0$

24. No SOLUTION

25.  $\frac{4\pi}{3}, \frac{5\pi}{3}$

26.  $\frac{\pi}{2}, \pi, \frac{3\pi}{2}$

27.  $\frac{\pi}{2}, \frac{3\pi}{2}$

28.  $0, \pi, \frac{3\pi}{4}, \frac{7\pi}{4}$

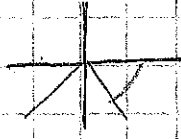
29.  $\frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$

30.  $0, \frac{\pi}{4}, \pi, \frac{5\pi}{4}$

32.  $0, \pi$

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10.  $\sin^{-1}(-.78) = -0.89$  (QUAD IV)  
QUAD III  $\pi - \sin^{-1}(.78) \approx 4.04$



12.  $\cos^{-1}(-.89) = 2.67$  (QUAD II)  
QUAD III  $\pi + (\pi - \cos^{-1}(-.89)) \approx 3.62$

