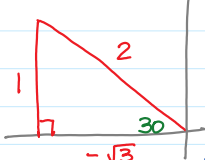
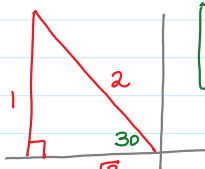


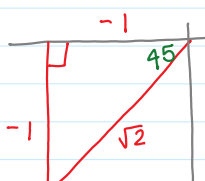
- (30)  $\frac{5\pi}{6}$     (31)  $\frac{5\pi}{6}$     (32)  $\frac{5\pi}{4}$     (36) 1.14    (37) 5.25    (40) .29 or 3.43

- (51) false.  $\tan x$  is not fully defined over  $(-\infty, \infty)$     (52) true:  $\frac{1}{\cos a} = \text{und} \Rightarrow \cos a = 0$     (53) a    (54) e    (55) d  
 $\cot a = \frac{\cos a}{\sin a} = \frac{0}{\sin a} = 0$

Solutions

(30)   $180 - 30 = 150^\circ$   
 or  $\frac{5\pi}{6}$

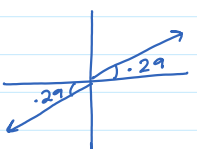
(31)   $150^\circ$  or  $\frac{5\pi}{6}$

(32)   $180 + 45 = 225^\circ$   
 or  $\frac{5\pi}{4}$

(36)  $\frac{1}{\cos x} = \frac{2.4}{1} \Rightarrow \cos x = \frac{1}{2.4}$   
 $x = \cos^{-1}\left(\frac{1}{2.4}\right)$   
 $x \approx 1.14$

(37)  $\frac{1}{\tan x} = \frac{-0.6}{1} \Rightarrow \tan x = \frac{1}{-0.6}$   
 $x = \tan^{-1}\left(\frac{1}{-0.6}\right)$   
 $x = -1.03$   
 $2\pi - 1.03 = 5.25$

(40)  $\tan x = 0.3$   
 $x = \tan^{-1}(0.3)$   
 $x \approx .29 \text{ \& } 3.43$



$\pi + .29 = 3.43$