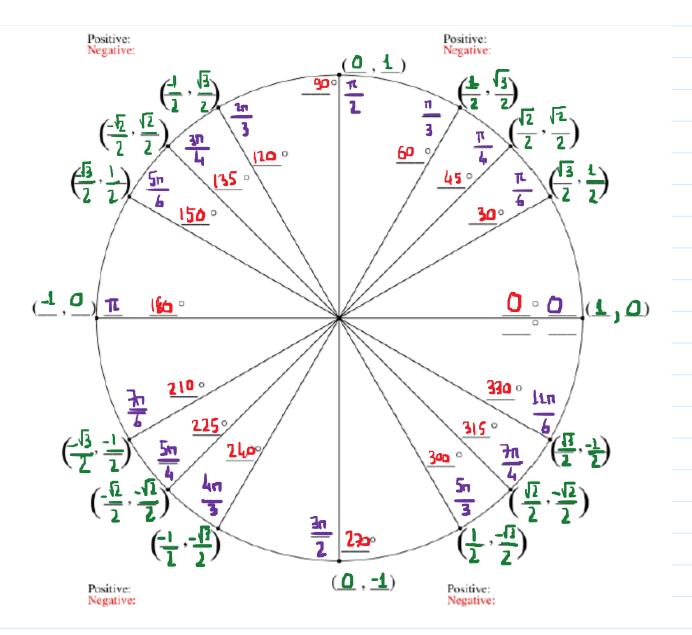
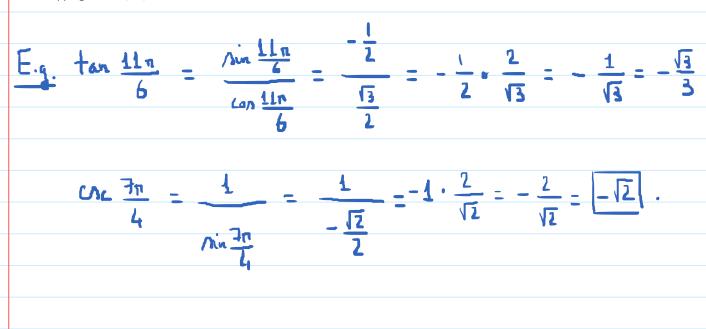
Monday, February 17, 2020 10:28 AM Unit Circle : Circle centered at the origin and Radius = 1 R <u>-</u> 1 (x, y)  $cop\Theta = \frac{x}{R} = x$  $\int u \theta = \frac{y}{R} = \frac{y}{R}$  $\tan\theta = \frac{4}{x}$  $ote = \frac{x}{y}$ Neca = 1  $U_{1}U = \frac{1}{y}$ 



Screen clipping taken: 2/17/2020 10:40 AM



Wednesday, February 19, 2020 9:52 AM

$$\operatorname{Ain}\left(\frac{3\pi}{3}\right) = \left[\frac{13}{2}\right]$$

$$\operatorname{cotonwirel} \quad \frac{13\pi}{3} - \frac{2\pi^{3}}{1 \cdot 3} = \left[\frac{3\pi}{3}\right] - \frac{6\pi}{3} = \frac{7\pi}{3}$$

$$\frac{7\pi}{3} - \frac{2\pi^{3}}{1 \cdot 3} = \frac{7\pi}{3} - \frac{6\pi}{3} = \frac{\pi}{3}$$

$$\operatorname{coto}\left(-\frac{3\pi}{2}\right) = 0$$

$$-\frac{3\pi}{2} + \frac{2\pi^{2}}{1 \cdot 2} = -\frac{3\pi}{2} + \frac{4\pi}{2} = \frac{\pi}{2}$$

$$\operatorname{cotonwind}$$

$$\operatorname{E.g. Find the exact value of A in the given interval
$$\operatorname{that has the given circular function value:}$$

$$\operatorname{e.exact} \left(\cos\left(A\right)\right) = -\frac{1}{2}; \quad A \text{ is in } \left[\frac{\pi}{2}, \pi\right]$$

$$A = \frac{1\pi}{3}$$

$$\operatorname{e.exact} \left[\pi, \frac{3\pi}{2}\right]$$

$$A = \frac{1\pi}{3}$$$$

Wednesday, February 19, 2020 10:03 AM

(c) 
$$\sin n = -\frac{13}{2}$$
;  $n = \sin \left[0, 2\pi\right]$   
 $n = \frac{4\pi}{3}, n = \frac{5\pi}{3}$   
(d)  $\cos^2 n = \frac{1}{2}$ ;  $n = \left[0, 2\pi\right]$   
 $bn = \pm \sqrt{\frac{1}{2}} = \pm \frac{4}{\sqrt{2}} = \pm \frac{\sqrt{2}}{2}$   
 $n = \frac{\pi}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$   
(e)  $\tan n = \pm \sqrt{3}$   
 $n = \frac{\pi}{3}, \frac{4\pi}{3}, \frac{2\pi}{3}, \frac{5\pi}{3}$ .

Wednesday, February 19, 2020 10:13 AM

E.g. Find a in radium .  
(a) 
$$Aim A = 0.82639$$
;  $a in [0,2\pi]$   
 $A = 55.73^{\circ}$   
 $A = 55.73^{\circ} = 424.77^{\circ}$  [In degreen  
 $A = \pi - 0.97$ ;  $2.17$  [In radium  
 $A = \pi - 0.97$ ;  $2.17$  [In radium  
 $A = \pi - 0.97$ ;  $2.17$  [In radium  
 $A = 1.13$   
 $A = 1.22$   
 $A = 1.22$   
 $A = 1.22$   
 $A = 1.22$   
 $A = \pi + 1.22 = 3.36$ .