$$tan6 = \frac{sin6}{cos6} = \frac{1}{cot6}$$
 sec  $0 = \frac{1}{cos6}$ 

$$\cot \Theta = \frac{\cos \Theta}{\sin \Theta} = \frac{1}{\tan \Theta}$$
  $\csc \Theta = \frac{1}{\sin \Theta}$ 

$$(r\cos\theta, r\sin\theta)$$
  $r=radius$   $\cos\theta = \frac{x}{r}$   $\sec\theta = \frac{x}{x}$   $\sin\theta = \frac{y}{r}$   $\csc\theta = \frac{y}{y}$   $\tan\theta = \frac{y}{x}$   $\cot\theta = \frac{x}{y}$ 

example

$$(-4,0)$$
 find  $\cos \Theta$   $(-4,0)$   $r = 4$   $\cos \Theta = \frac{x}{r} = -\frac{1}{4} = -1$ 

Find x over the given interval

$$Sin X = \frac{1}{2} \qquad X = \frac{5\pi}{4}$$

you try -- .

$$G = \frac{2}{\sqrt{3}} \quad 0 \leq x \leq 2\pi$$

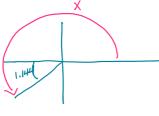
$$S(n) = \sqrt{3}$$

$$X = \frac{\pi}{3}, \quad \frac{2\pi}{3}$$

(a) 
$$\sec x = -1$$
  $0 \le x \le 2\pi$   
 $x = \pi$ 

calculator with

0 4 x 2 2 m



X=1,144

xx 4.286

$$Sinx = -.3$$

$$\pi \leq x \leq \frac{3\pi}{2}$$

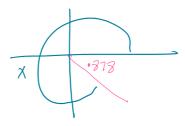
$$cscx = -1.3$$

Reference Anglo

$$\frac{1}{\sin x} = 1.3$$

$$\frac{1}{1.3} = \sin X$$

$$x = \sin^{-1}\left(\frac{1}{1.3}\right)$$



X ≈ 5.406

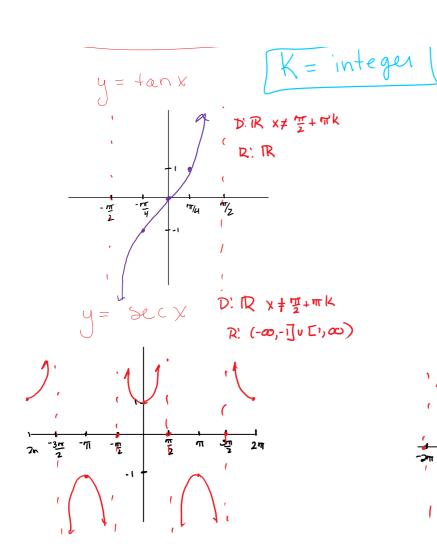
y = tanx

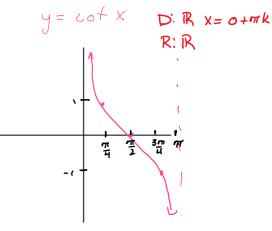
K = integer

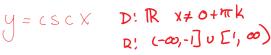
y = cot x

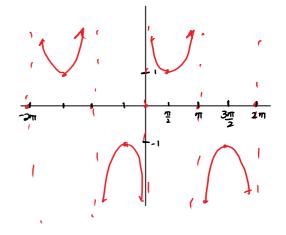
D'. R X= O+mk

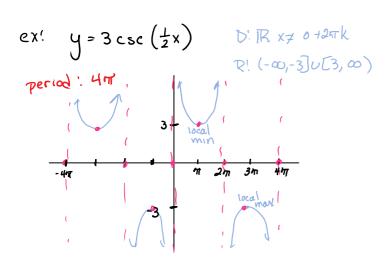
RIR

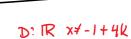




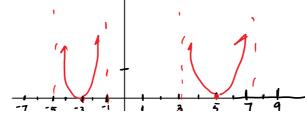








y=-10 sec [#(x-1)]
Period 8 STR 2
Dd: Right 1



Period 8 STR 2 pd: Right 1 vs V 1

