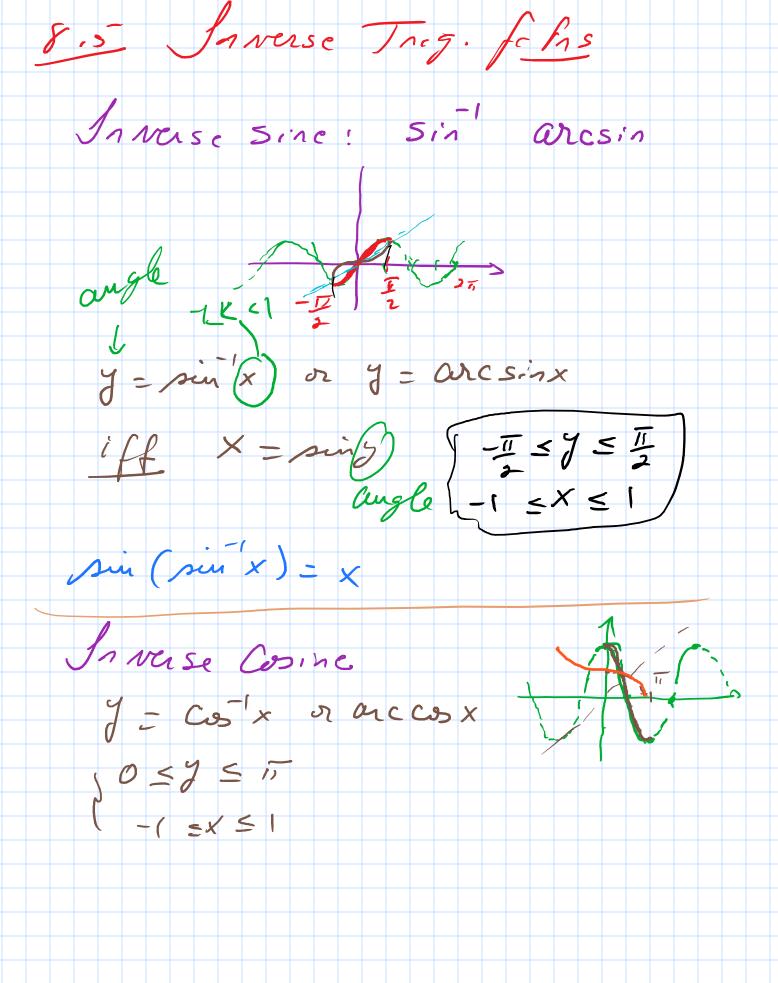
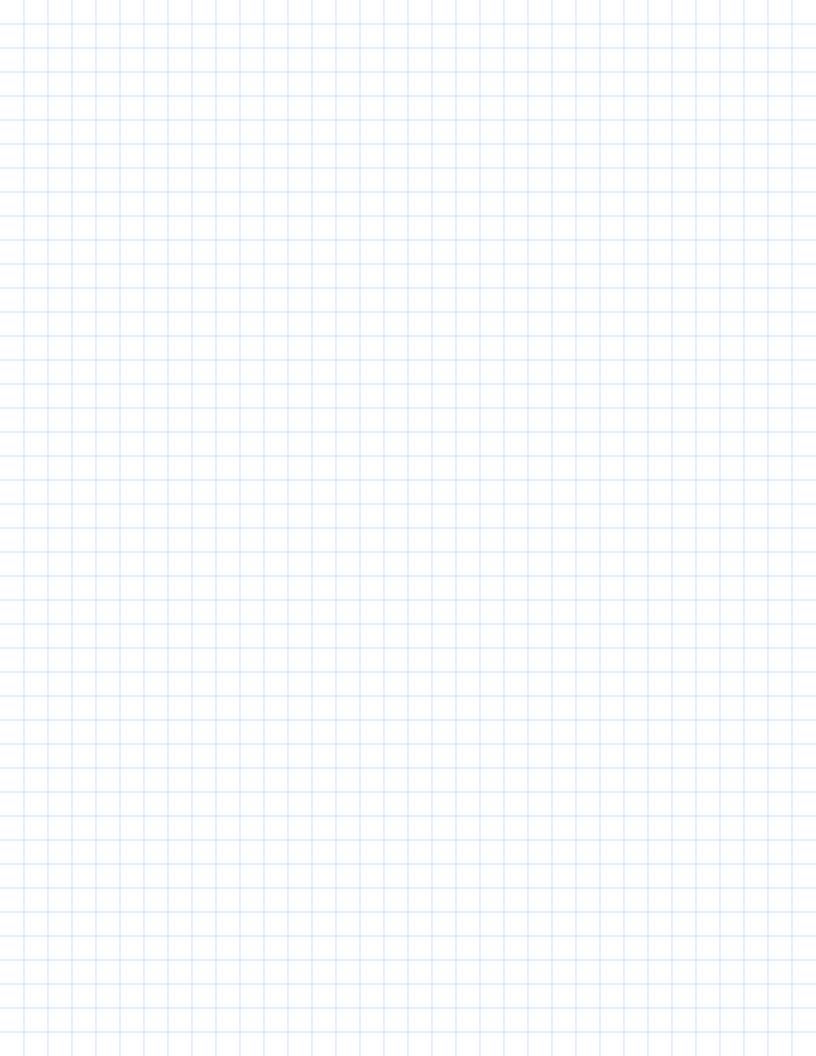
Cosx +1 = 2 sin 2 [0,2 11] = 2 (1-cus x) = 2 - 2 cos2x 2 Cv3x + cv5x - 1 = 0 CDX = -1  $CDX = \frac{1}{2}$  $X = \overline{D}$ ,  $\overline{3}$ ,  $\overline{5}$ ,  $\overline{3}$ # 9 co (hx) = 0  $lux = \frac{\pi}{2} \qquad lux = \frac{3\pi}{2}$ x = e 1/2, e 3 1/2 \$19 2 sin x = 1 - sin x 2 sin x + sin x - 1= 0 sin x = -1  $sin x = \frac{1}{2}$  $x = \frac{317}{2}, \frac{11}{6}, \frac{511}{6}$ 

# Can x sinx = suix [0,2") tan2x sinx - sinx = 0 suix ( tanx -1) = 0 tan2x - 1=0 sin x = 0 tan x = 1 $X = 0, \pi, \frac{17}{4}, \frac{3\pi}{4}, \frac{5\pi}{4}, \frac{7\pi}{4}$ ()=() #12 1- sinx = 13 CDX ( Check 13 cox 4/ sinx = 1/2  $(-1)^{2} = (1)^{2}$ Cos II cosx + sin II sin x = 1  $Cor(x-\overline{e})=\frac{1}{2}$  $\times - \frac{\pi}{6} = \frac{511}{3}$  $\begin{array}{c} x - \overline{12} = \overline{11} \\ x = \overline{4} + \overline{4} \end{array}$ X = 51) + 1  $=\frac{110}{6}$ = 12

#\(\omega \) 2 \(\omega \) \(

 $X = \frac{777}{6}, \frac{1177}{6}, \frac{77}{2}, \frac{377}{2}$ 





Inverse Yangent.

$$J = fan' \times r \quad y = arctan \times$$
 $J = fan' \times r \quad y = arctan \times$ 
 $X \in \mathbb{R}$ 
 $X \in \mathbb{R}$ 
 $X \in \mathbb{R}$ 
 $X = arccos(-\frac{2}{3})$ 
 $X = arccos(-\frac{2}{3})$ 

Ex sin (arctan = arcos 4)  $tan \alpha = \frac{1}{2}$   $\int cos \alpha = \frac{2}{\sqrt{5}}$ Corp = 4 > pinp = 3 sin(a \_ B) = sin a CorB - sin B Cora = 1 4 - 3 2 5 5 5 = 15 5 - <del>-2</del> 5/5 Ces (sin x)

$$3u \propto \frac{1}{x^{2}-9^{7}}$$

$$\sin \alpha = \frac{1}{x^{2}-9^{7}}$$

$$\cot \alpha = \frac{3}{\sqrt{x^{2}-9^{7}}}$$

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$$\cot \alpha = \frac{1}{\sqrt{x^{2}+4}}$$

$$\sin \alpha = \frac{1}{\sqrt{x^{2}+4}}$$

$$\sec \alpha = \frac{1}{\sqrt{x^{2}+4}}$$

$$\sec \alpha = \frac{1}{\sqrt{x^{2}+4}}$$

$$\sec \alpha = \frac{1}{\sqrt{x^{2}+4}}$$

$$39 \operatorname{sec} \left( \frac{1}{4} \operatorname{an} \frac{2}{\sqrt{x^2 - 4}} \right)$$

$$7 \operatorname{an} \alpha = \frac{2}{\sqrt{x^2 - 4}}$$

$$8 \operatorname{ec} \alpha = \frac{x}{\sqrt{x^2 - 4}}$$

8.6 Polax Corroline ks

P(
$$r$$
,  $\theta$ )

Autority

 $\frac{dx}{dx} + \frac{dy}{dy} = \frac{dx}{dx} + \frac{dx}{dy} = \frac{dx}{dx} + \frac{dx}{dy} + \frac{dx}{dy} + \frac{dx}{dy} = \frac{dx}{dy} + \frac{dx$ 

Ex x2-y2-16 (rcoro) - (rsino) = 16 raciso - ramino = 16 12 (coo 0 - sind 0) = 16 12 (cos20)=16 12= 16 = 16 sec 20 ] 116 R = 4 CDO + 2 sind 12 = 4 r coso + 2 r sind x + y = 4 x + 4 y  $x^2 - 4x + (-2)^2 + y^2 - 4y(-2)^2 = 4 + 4$  $(x-2)^2 + (y-2)^2 = 8$ 59 22= 4 Cos 20 = 4 cos 0 - 4 min 2 14 = 42 Cos20 -42 sin 8 (x+y2)2 = 4x2 - 4g2