

① $y = 3 \csc(2\theta + \frac{\pi}{6}) + 2$ sin

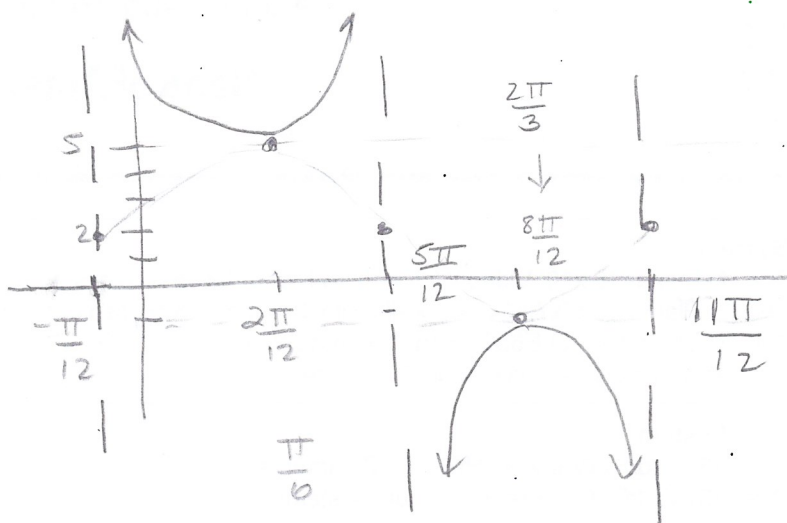
$A = 3$

$Per = \pi$

$PS = -\frac{\pi}{12}$ (left)

$VS = 2$

$\frac{\pi}{4} = \frac{3\pi}{12}$



③ $y = -1 + 2 \csc(2\theta + \frac{2\pi}{3})$

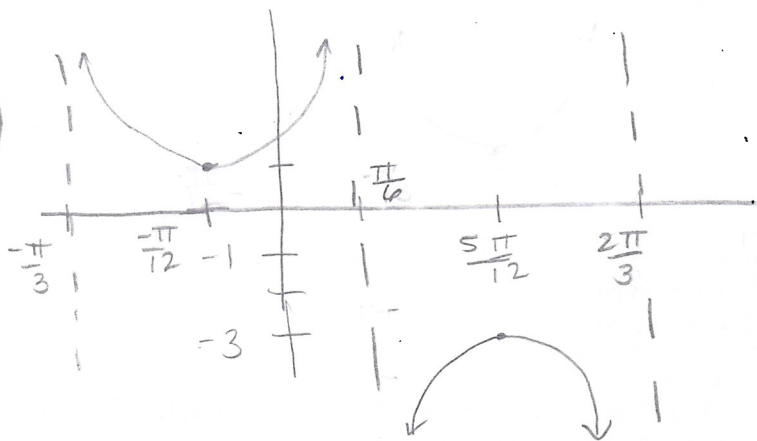
$A = 2$

$Per = \pi$

$PS = -\frac{\pi}{3}$ (left)

$VS = -1$

$\frac{\pi}{4} = \frac{3\pi}{12}$



$\frac{4\pi}{12} = -\frac{\pi}{3}$	-1	und
$-\frac{\pi}{12}$	1	
$\frac{2\pi}{12} = \frac{\pi}{6}$	-1	und
$\frac{5\pi}{12}$	-3	
$\frac{8\pi}{12} = \frac{2\pi}{3}$	-1	und

⑤ $y = 3 \csc(\frac{\theta}{3} - \frac{3\pi}{4}) - 2$

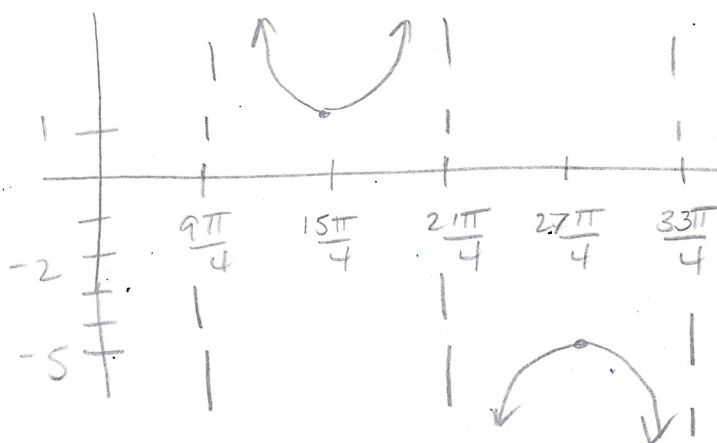
$A = 3$

$Per = 6\pi$

$PS = \frac{9\pi}{4}$ (right)

$VS = -2$

$\frac{6\pi}{4}$



$\frac{9\pi}{4}$	-2	und
$\frac{15\pi}{4}$	1	1
$\frac{21\pi}{4}$	-2	und
$\frac{27\pi}{4}$	-5	-5
$\frac{33\pi}{4}$	-2	und

② $y = \csc\left(\theta + \frac{\pi}{3}\right)$

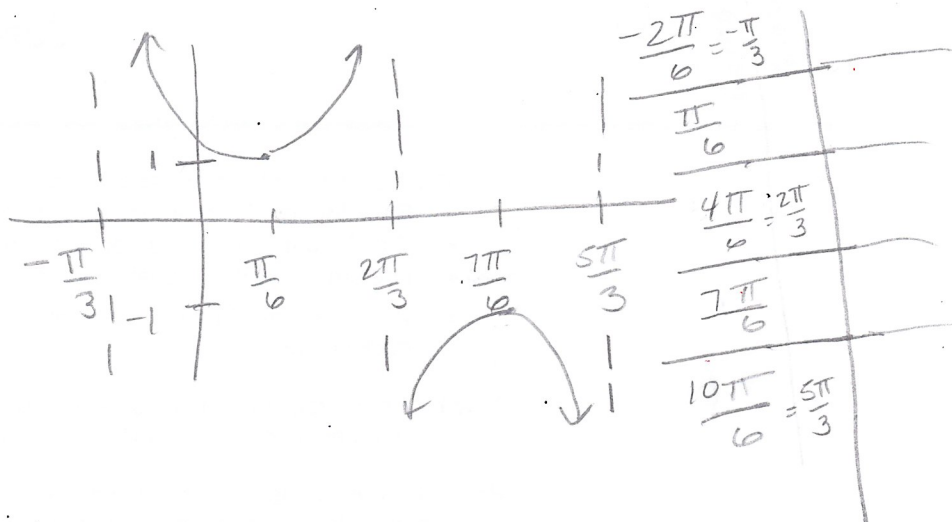
$A = 1$

$P_{\text{er}} = 2\pi$

$PS = -\frac{\pi}{3}$ (left)

$VS = 0$

$\frac{2\pi}{4} = \frac{\pi}{2} = \frac{3\pi}{6}$



④ $y = \sec\left(\theta - \frac{\pi}{3}\right) + 2$

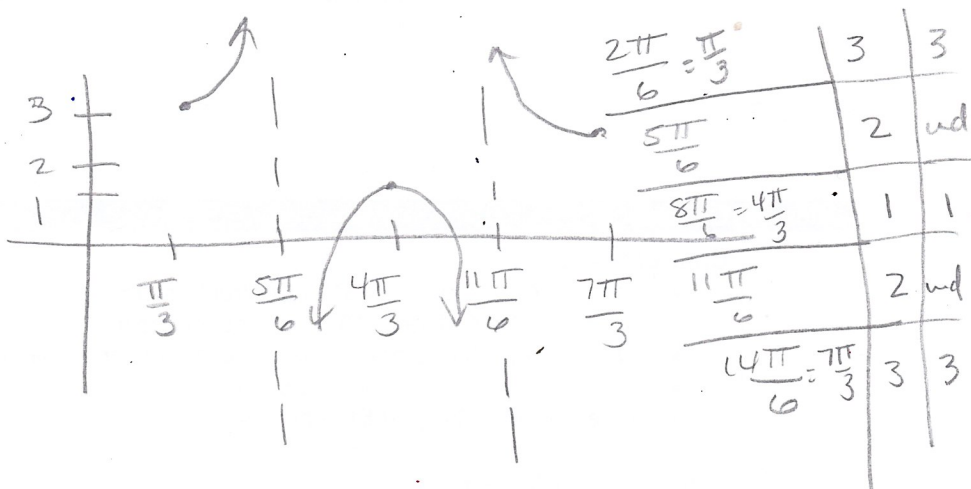
$A = 1$

$P_{\text{er}} = 2\pi$

$PS = \frac{\pi}{3}$ (right)

$VS = 2$

$\frac{2\pi}{4} = \frac{\pi}{2} = \frac{3\pi}{6}$



⑥ $y = 2 \sec\left(\frac{\theta}{3} + \frac{\pi}{3}\right) - 1$

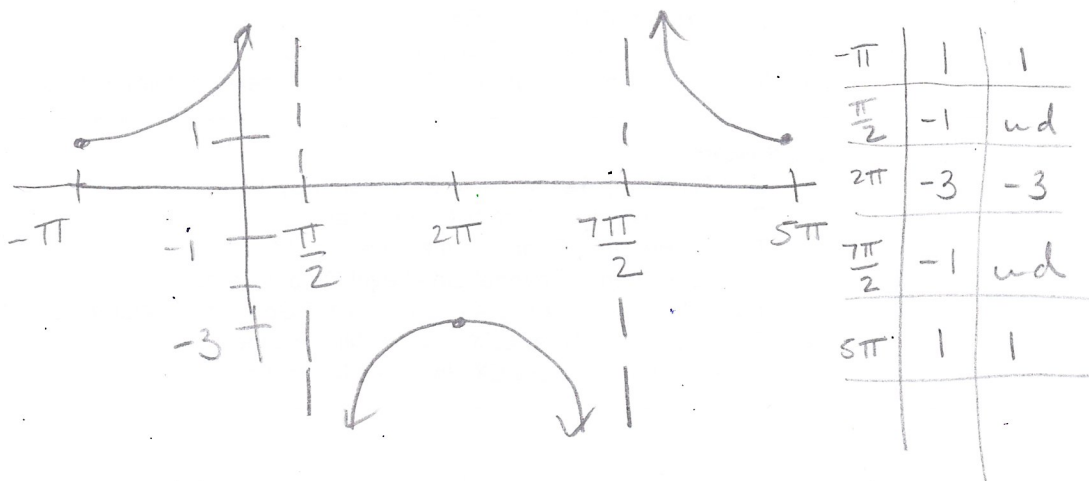
$A = 2$

$P_{\text{er}} = 6\pi$

$PS = \pi$ (left)

$VS = -1$

$\frac{6\pi}{4} = \frac{3\pi}{2}$



$$7. y = \frac{1}{2} \sec\left(\frac{\theta}{3} - \frac{\pi}{4}\right)$$

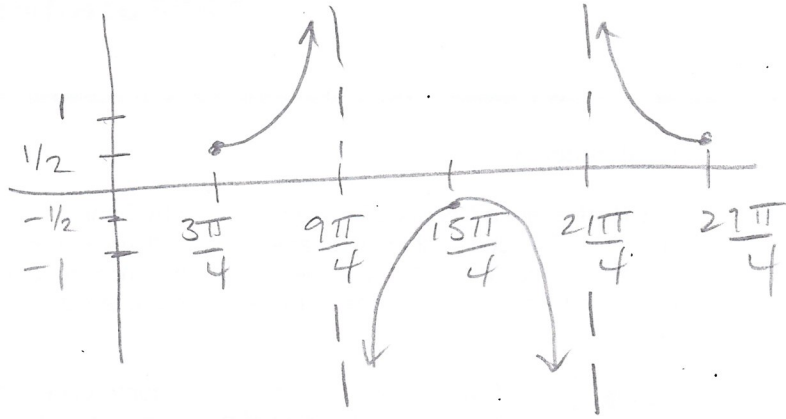
$$A = \frac{1}{2}$$

$$Per = 6\pi$$

$$PS = \frac{3\pi}{4} \text{ (right)}$$

$$VS = 0$$

$$\frac{6\pi}{4}$$



$$8. y = 2 \sec\left(\frac{\theta}{2} - \frac{2\pi}{3}\right) + 1$$

$$A = 2$$

$$Per = 4\pi$$

$$PS = \frac{4\pi}{3} \text{ (right)}$$

$$VS = 1$$

$$\frac{4\pi}{4} = \pi = \frac{3\pi}{3}$$

