

$$\textcircled{1} y = -1 + 4 \tan\left(\frac{\theta}{3} - \frac{\pi}{2}\right)$$

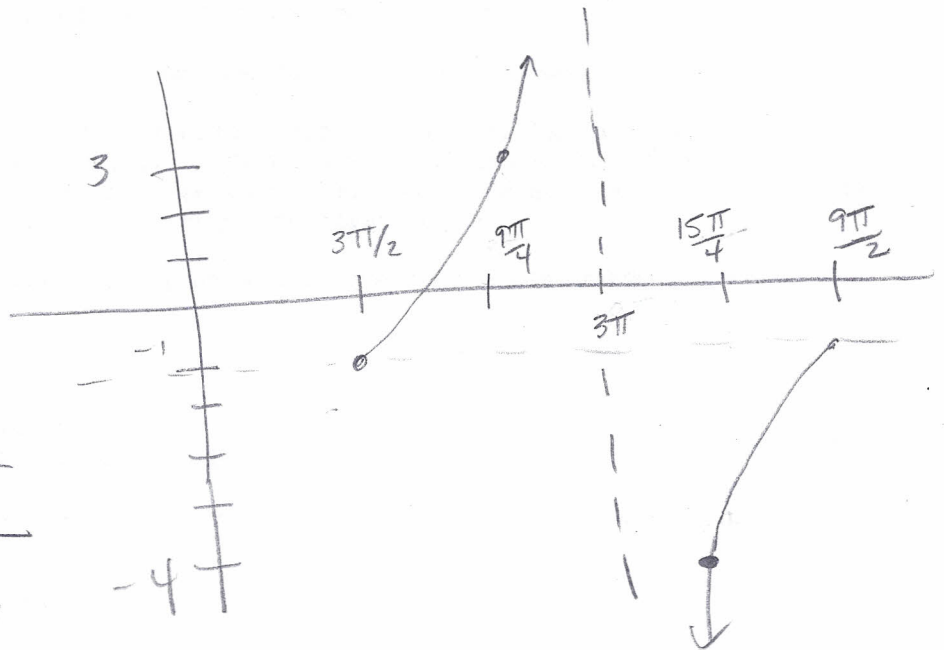
vert stretch of 4

$$\text{Per} = 3\pi$$

$$\text{PS} = \frac{3\pi}{2} \text{ (right)}$$

$$\text{VS} = -1$$

$\frac{3\pi}{4}$	$\frac{6\pi}{4}$	$\frac{3\pi}{2}$	-1
		$\frac{9\pi}{4}$	3
	$\frac{12\pi}{4}$	3π	und
		$\frac{15\pi}{4}$	-5
	$\frac{18\pi}{4}$	$\frac{9\pi}{2}$	-1



$$\textcircled{2} y = 2 \cot\left(2\theta + \frac{\pi}{2}\right) - 2$$

vert stretch of 2

$$\text{Per} = \frac{\pi}{2}$$

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

$$\text{VS} = -2$$

$\frac{\pi}{8}$	$-\frac{2\pi}{8}$	$-\frac{\pi}{4}$	und
		$-\frac{\pi}{8}$	0
	$\frac{4\pi}{8}$	0	-2
		$\frac{\pi}{8}$	-4
		$\frac{\pi}{4}$	und

