

You try.

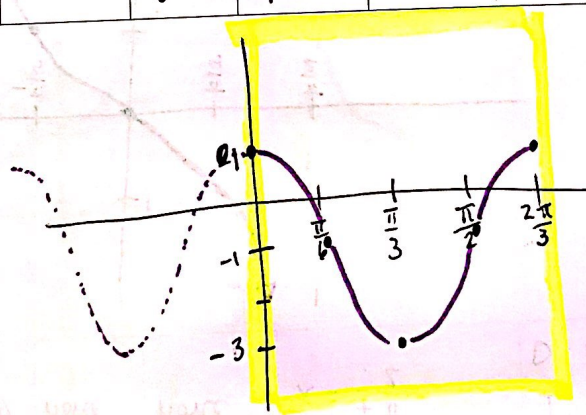
Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One-to-One
$y = \frac{1}{2} \sin\left(\frac{\theta - 2\pi}{2} - \frac{2\pi}{3}\right)$	$\left[\frac{4\pi}{3}, \frac{16\pi}{3}\right]$	$\left[-\frac{1}{2}, \frac{1}{2}\right]$	$y = \frac{1}{2}$	$y = -\frac{1}{2}$	none	I: $\left(\frac{4\pi}{3}, \frac{1}{2}\right) + \left(\frac{13\pi}{3}, \frac{1}{2}\right)$ D: $\left(\frac{7\pi}{3}, -\frac{1}{2}\right)$	neither	no

$y = \frac{1}{2} \sin\left[\frac{1}{2}\left(\theta - \frac{4\pi}{3}\right)\right]$
 $per = \frac{2\pi}{\frac{1}{2}} = 4\pi$



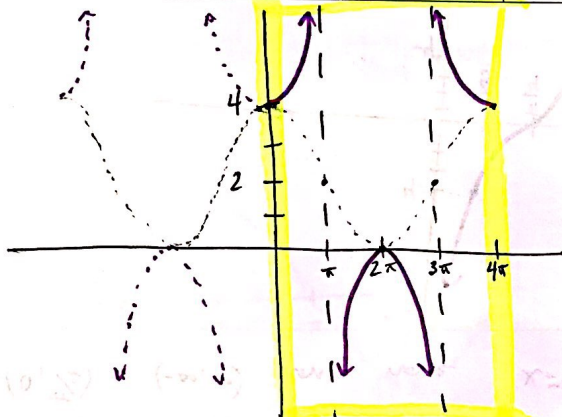
Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One-to-One
$y = 2 \cos(3\theta) - 1$	$\left[0, \frac{2\pi}{3}\right]$	$[-3, 1]$	$y = 1$	$y = -3$	none	I: $\left(\frac{\pi}{3}, \frac{2\pi}{3}\right)$ D: $\left(0, \frac{\pi}{3}\right)$	Even	no

$per = \frac{2\pi}{3}$



Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One-to-One
$y = 2 \sec\left(\frac{\theta}{2}\right) + 2$	$[0, \pi) \cup (\pi, 3\pi) \cup (3\pi, 4\pi]$	$(-\infty, 0] \cup [4, \infty)$	none	none	$x = \pi, 3\pi$	I: $(0, \pi) \downarrow (\pi, 2\pi)$ D: $(2\pi, 3\pi) \uparrow (3\pi, 4\pi)$	even	no

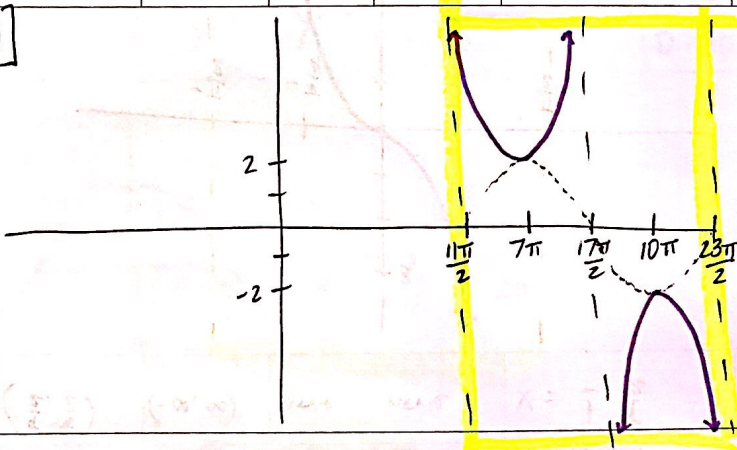
per: $\frac{2\pi}{\frac{1}{2}} = 4\pi$



Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One-to-One
$y = 2 \csc\left(\frac{\theta}{3} - \frac{11\pi}{6}\right)$	$(\frac{11\pi}{2}, \frac{17\pi}{2}) \cup (\frac{17\pi}{2}, \frac{23\pi}{2})$	$(-\infty, -2] \cup [2, \infty)$	none	none	$x = \frac{11\pi}{2}, \frac{17\pi}{2}, \frac{23\pi}{2}$	I: $(7\pi, \frac{17\pi}{2}) \downarrow (\frac{17\pi}{2}, 10\pi)$ D: $(\frac{11\pi}{2}, 7\pi) \uparrow (10\pi, \frac{23\pi}{2})$	neither	no

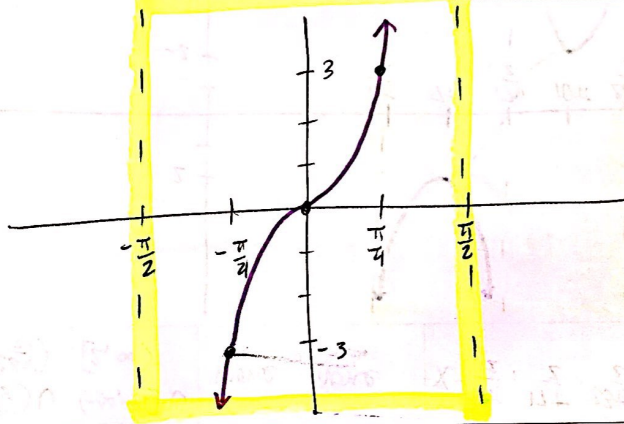
$y = 2 \csc\left[\frac{1}{3}\left(\theta - \frac{11\pi}{2}\right)\right]$

per: $\frac{2\pi}{\frac{1}{3}} = 6\pi$



Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One-to-One
$y = 3 \tan \theta$	$(-\frac{\pi}{2}, \frac{\pi}{2})$	$(-\infty, \infty)$	none	none	$x = \pm \frac{\pi}{2}$	I: $(-\frac{\pi}{2}, \frac{\pi}{2})$ D: none	odd	yes

per = π
 $\theta = -\frac{\pi}{2} + \theta = \frac{\pi}{2}$



Function	Domain	Range	Max	Min	Asymptotes	Inc./Decreasing	Odd/Even	One-to-One
$y = 4 \cot 2\theta$	$(0, \frac{\pi}{2})$	$(-\infty, \infty)$	none	none	$x = 0, \frac{\pi}{2}$	I: none D: $(0, \frac{\pi}{2})$	odd	yes

per = $\frac{\pi}{2}$
 $2\theta = 0 + 2\theta = \pi$
 $\theta = 0 + \theta = \frac{\pi}{2}$

