

$$1. y = 3 \sin(4x - \pi)$$

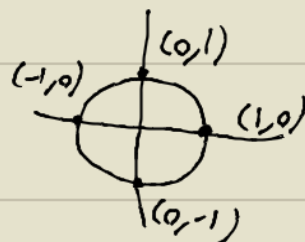
$$= 3 \sin\left[4\left(x - \frac{\pi}{4}\right)\right]$$

RIGHT $\frac{\pi}{4}$

$$y = 3 \sin(4x)$$

$$|a| = |3| = 3$$

$$\text{PERIOD} = \frac{2\pi}{b} = \frac{2\pi}{4} = \frac{\pi}{2}$$



	X	Y
Z	0	$3 \sin(4 \cdot 0) = 3 \sin(0) = 3(0) = 0$
$\frac{1}{4}P$	$\frac{\pi}{8}$	$3 \sin\left(4 \cdot \frac{\pi}{8}\right) = 3 \sin\left(\frac{\pi}{2}\right) = 3(1) = 3$
$\frac{1}{2}P$	$\frac{\pi}{4}$	$3 \sin\left(4 \cdot \frac{\pi}{4}\right) = 3 \sin(\pi) = 3(0) = 0$
$\frac{3}{4}P$	$\frac{3\pi}{8}$	$3 \sin\left(4 \cdot \frac{3\pi}{8}\right) = 3 \sin\left(\frac{3\pi}{2}\right) = 3(-1) = -3$
P	$\frac{\pi}{2}$	$3 \sin\left(4 \cdot \frac{\pi}{2}\right) = 3 \sin(2\pi) = 3(0) = 0$

