

$$2. \quad y = -2 \cos\left(3x - \frac{\pi}{2}\right)$$

$$= -2 \cos\left[3\left(x - \frac{\pi}{6}\right)\right]$$

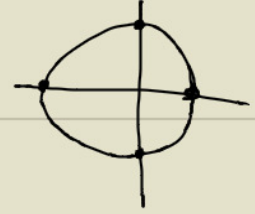
$$\frac{\pi}{2} \div 3 = \frac{\pi}{2} \div \frac{2}{1} = \frac{\pi}{2} \cdot \frac{1}{2}$$

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

RIGHT  $\frac{\pi}{6}$

$$y = -2 \cos(3x)$$

$$|a| = |-2| = 2 \quad \text{PERIOD} = \frac{2\pi}{b} = \frac{2\pi}{3}$$



	X	Y = -2 cos(3X)
Z	0	$-2 \cos(3 \cdot 0) = -2 \cos(0) = -2(1) = -2$
1/4 P	$\frac{\pi}{6}$	$-2 \cos\left(3 \cdot \frac{\pi}{6}\right) = -2 \cos\left(\frac{\pi}{2}\right) = -2(0) = 0$
1/2 P	$\frac{\pi}{3}$	$-2 \cos\left(3 \cdot \frac{\pi}{3}\right) = -2 \cos(\pi) = -2(-1) = 2$
3/4 P	$\frac{2\pi}{3}$	$-2 \cos\left(3 \cdot \frac{2\pi}{3}\right) = -2 \cos(2\pi) = -2(1) = -2$
P	$\frac{4\pi}{3}$	$-2 \cos\left(3 \cdot \frac{4\pi}{3}\right) = -2 \cos(4\pi) = -2(1) = -2$

