

$y = a \sin bx$
 Sine
 from $(0,0)$ y intercept
 a is amplitude
 $+a$ goes up from 0
 $-a$ goes down from 0
 period $\frac{360}{|b|}$

cos. function
 $y = a \cos bx$
 y intercept = $(0, a)$
 amplitude $|a|$
 period $\frac{360}{|b|}$

$y = 2 \sin 4x$
 y-intercept $(0,0)$
 amp 2
 period 90

b gives information about the period

b	period	period
2	\times	$180 = 360$
3		$120 = 360$
1		$360 = 360$
$\frac{1}{2}$		$720 = 360$
$\frac{1}{4}$		1440

