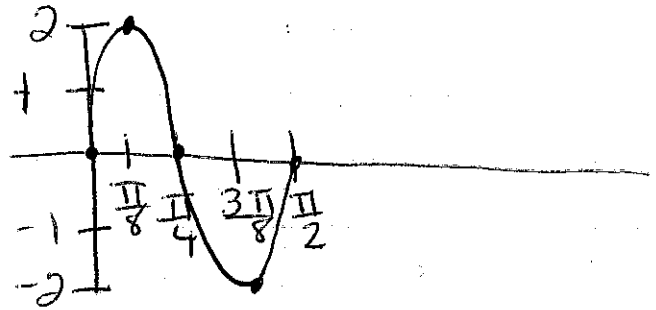


# Graphing Trig Review

$$y = 2 \sin(4x) \quad \text{Per} = \frac{2\pi}{4} = \frac{\pi}{2} \quad \text{Inc} = \frac{\pi/2}{4} = \frac{\pi}{8}$$

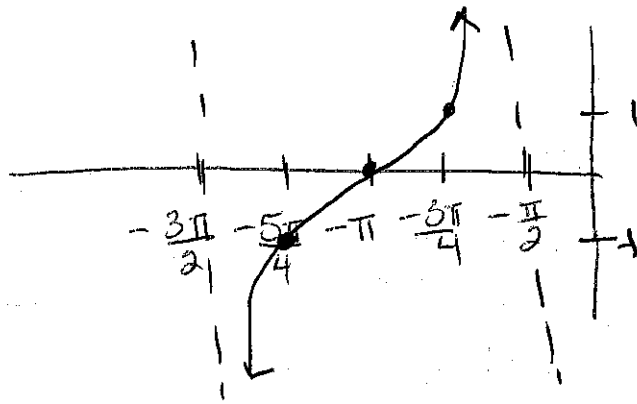
x	y
0	$0(2) = 0$
$\pi/8$	$1(2) = 2$
$\pi/4$	$0(2) = 0$
$3\pi/8$	$-1(2) = -2$
$\pi/2$	$0(2) = 0$



$$y = \tan(x + \pi)$$

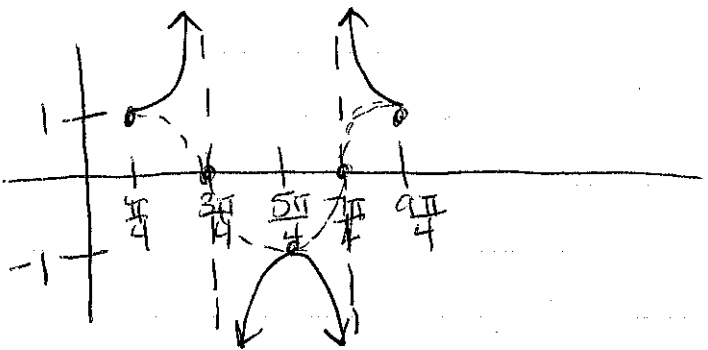
asymp:  $x + \pi = \frac{\pi}{2} \quad x + \pi = -\frac{\pi}{2}$   
 $x = -\frac{\pi}{2} \quad x = -\frac{3\pi}{2}$

x	y
$-\frac{3\pi}{2}$	$\emptyset$
$-\frac{5\pi}{4}$	-1
$-\pi$	0
$-\frac{3\pi}{4}$	1
$-\frac{\pi}{2}$	$\emptyset$



$$y = \sec(x - \frac{\pi}{4}) \quad \text{Per} = 2\pi \quad \text{PS} = \frac{\pi}{4} \quad \text{Inc} = \frac{\pi}{2}$$

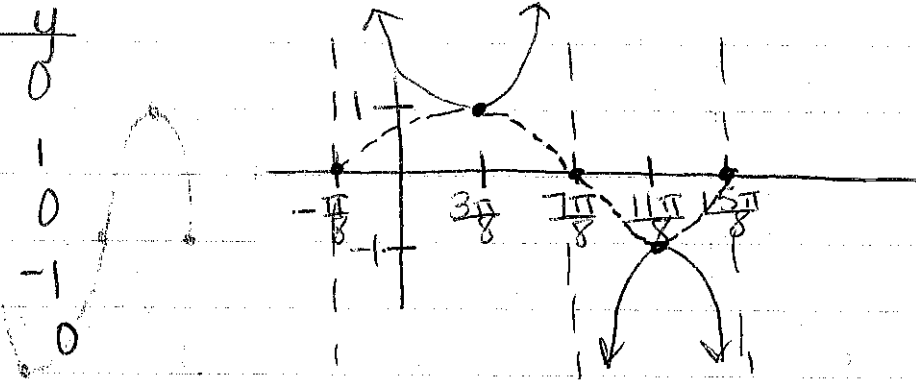
x	y
$\pi/4$	1
$3\pi/4$	0
$5\pi/4$	-1
$7\pi/4$	0
$9\pi/4$	1



$\frac{1}{2} \cdot \frac{\pi}{4}$

sin  
 $y = \csc(x + \frac{\pi}{8})$  per =  $2\pi$  Inc =  $\frac{2\pi}{4} = \frac{\pi}{2}$  ps =  $-\frac{\pi}{8}$

x	y
$-\frac{\pi}{8}$	0
$\frac{3\pi}{8}$	1
$\frac{7\pi}{8}$	0
$\frac{11\pi}{8}$	-1
$\frac{15\pi}{8}$	0



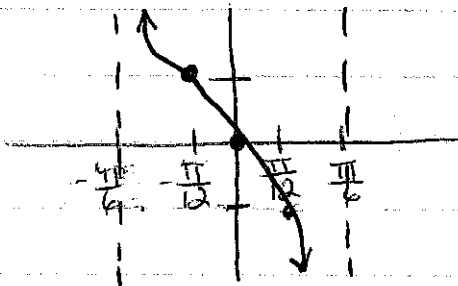
$y = -2 \sin(2\pi x + \frac{1}{2})$  per =  $\frac{2\pi}{2\pi} = 1$  Inc =  $\frac{1}{4}$  ps =  $\frac{1/2}{2\pi} = \frac{\pi}{4}$

x	y
$\frac{\pi}{4}$	

OMIT

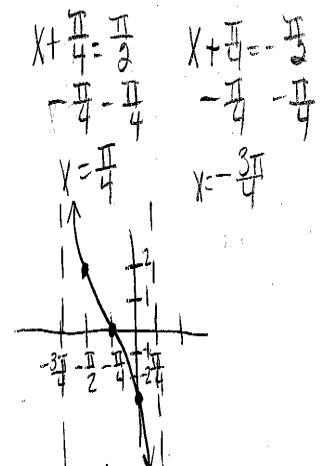
$y = -\tan(3x)$  per =  $\frac{\pi}{3}$  Inc =  $\frac{\pi/3}{4} = \frac{\pi}{12}$   
 $3x = \frac{\pi}{2}$        $3x = -\frac{\pi}{2}$   
 $x = \frac{\pi}{6}$          $x = -\frac{\pi}{6}$

x	y
$-\frac{\pi}{6}$	$\cancel{\emptyset}$
$-\frac{\pi}{12}$	$-1(-1) = 1$
0	$0(-1) = 0$
$\frac{\pi}{12}$	$1(-1) = -1$
$\frac{\pi}{6}$	$\cancel{\emptyset}$



$y = -2 \tan(x + \frac{\pi}{4})$  amp=2 per= $\pi$  ps= $\frac{\pi}{4}$   
 Inc= $\frac{\pi}{4}$

X	y
$-\frac{3\pi}{4}$	$\emptyset$
$-\frac{\pi}{4}$	$-1(-2)=2$
$-\frac{\pi}{4}$	$0(-2)=0$
0	$1(-2)=-2$
$\frac{\pi}{4}$	$\emptyset$



$y = -\cos \pi x - 4$  amp=1 per= $\frac{2\pi}{\pi}=2$  vs=-4  
 Inc= $\frac{2}{4}=\frac{1}{2}$

X	y
0	$1(-1)-4=-5$
$\frac{1}{2}$	$0(-1)-4=-4$
1	$-1(-1)-4=-3$
$\frac{1}{2}$	$0(-1)-4=-4$
2	$1(-1)-4=-5$

