

EX III

* 20)

$$Y = -2 \sin(2x - \pi) + 3$$

$$Y = -2 \sin 2(x - \pi/2) + 3$$

Amplitude = $| -2 | = 2$

Period = $2\pi/2 = \pi$

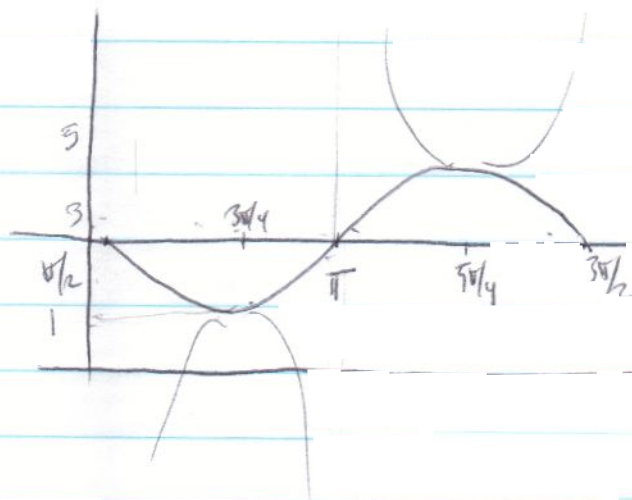
Phase shift = $\pi/2$ to the right

V.T. = $3 \uparrow$

x - Argument	x - Shifted	x - Original	y	Method
0	0	$\pi/2$	0	3
$\pi/2$	$\pi/4$	$3\pi/4$	-2	1
π	$\pi/2$	π	0	3
$3\pi/2$	$3\pi/4$	$5\pi/4$	2	5
2π	π	$3\pi/2$	0	3

$$Y = 2 \sin 2(x - \pi/4) + 3$$

J



7x