3. (10 pts.) Carefully sketch y = 3sin(2x - π) through one period. You will need the amplitude, period, and phase shift to do this properly. Label very carefully.

Amplitude = 3

Period = $\frac{2\pi}{2} = \pi$

$y = 3\sin(2(x - \frac{\pi}{2}))$

Phase Shift = $\frac{\pi}{2}$ to <u>right</u>.

x	$y = 3\sin(2(x - \frac{\pi}{2}))$
0	0
$\pi/4$	-3
$2\pi/4$	0
$3\pi/4$	3
$4\pi/4$	0
$5\pi/4$	-3