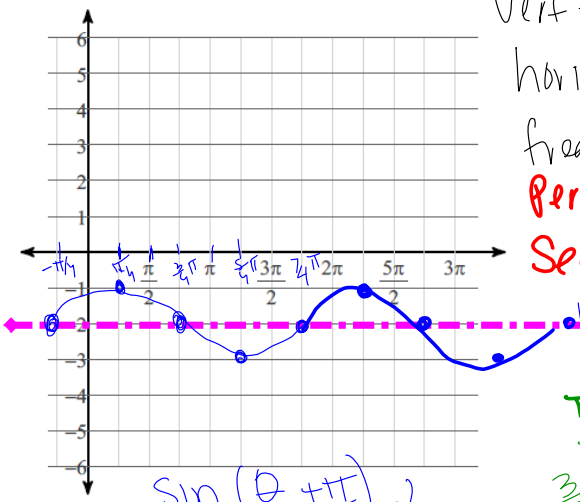
7) $y = \sin\left(\theta + \frac{\pi}{4}\right) - 2$



$\sin\left(\theta + \frac{\pi}{4}\right) - 2$

Amp: 1

Vert trans: Down 2

horizontal trans: $\frac{\pi}{4}$ left

frequency: 1 cycle in 2π

Period: $\frac{2\pi}{1} = 2\pi$

Sections: $\frac{2\pi}{4} = \frac{\pi}{2}$

x	y
$-\pi/4$	2
$\pi/4$	−1
$\frac{3}{4}\pi$	−2
$\frac{5}{4}\pi$	−3
$\frac{7}{4}\pi$	−2

0
$\pi/2$
π
$\frac{3}{2}\pi$
2π

$-\pi/4$