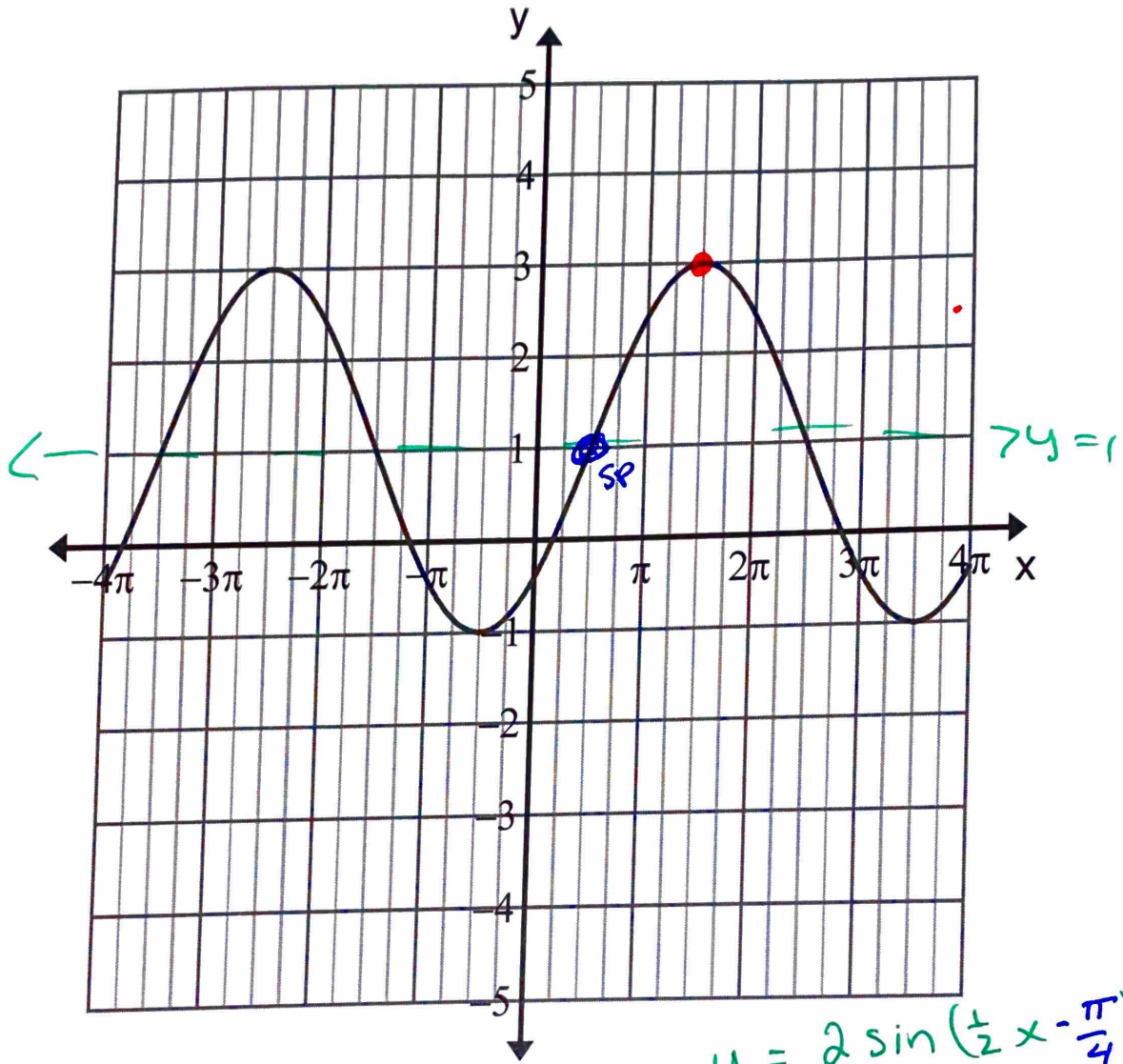


Find an equation in terms of sine / cosine



amp: 2 $a = 2$

Per = 4π

$$4\pi = \frac{2\pi}{b}$$

$$\frac{1}{2} = b$$

midline $y = 1$

PS = $\frac{-c}{b}$

$$y = 2 \sin\left(\frac{1}{2}x - \frac{\pi}{4}\right) + 1$$

$$-\frac{1}{2}\left(\frac{\pi}{2}\right) = \left(\frac{-c}{\frac{1}{2}}\right) - \frac{1}{2}$$

$$-\frac{\pi}{4} = c$$

$$y = 2 \cos\left(\frac{1}{2}x - \frac{3\pi}{4}\right) + 1$$

$d = +1$

$$-\frac{1}{2}\left(\frac{3\pi}{2}\right) = \left(\frac{-c}{\frac{1}{2}}\right) - \frac{1}{2}$$

$$-\frac{3\pi}{4} = c$$