

Practice Worksheet to find the amplitude, period, phase shift, and vertical shifts.

Remember the form of the equation is $y = A \sin(\omega\theta - \varphi) + c$

Amplitude = $|A|$ Period = $\frac{2\pi}{\omega}$ Phase Shift = $-\frac{\varphi}{\omega}$ Vertical Shift = c

Label the amplitude, period, phase shift, and vertical shift for each trig function below.

$y = 5 \sin(\theta - \pi)$ amplitude _____ Period _____ Phase Shift _____ Vertical Shift _____

$y = 2 \sin(\theta + \pi)$ amplitude _____ Period _____ Phase Shift _____ Vertical Shift _____

$y = \sin(7\pi\theta - 4\pi)$ amplitude _____ Period _____ Phase Shift _____ Vertical Shift _____

$y = 3 \sin\left(\frac{\theta}{2}\right)$ amplitude _____ Period _____ Phase Shift _____ Vertical Shift _____