

1.  $y = -\sin x - 3$

Period:

Amplitude:

Vertical Shift:

Phase Shift:



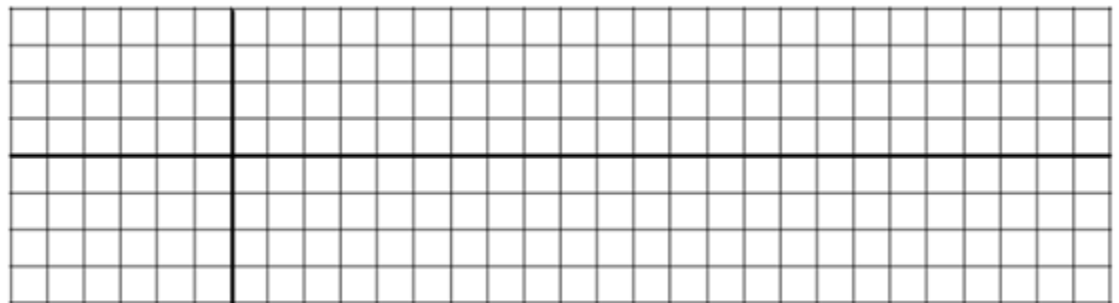
2.  $y = \frac{1}{2} \sin 2(x - \frac{\pi}{4})$

Period:

Amplitude:

Vertical Shift:

Phase Shift:



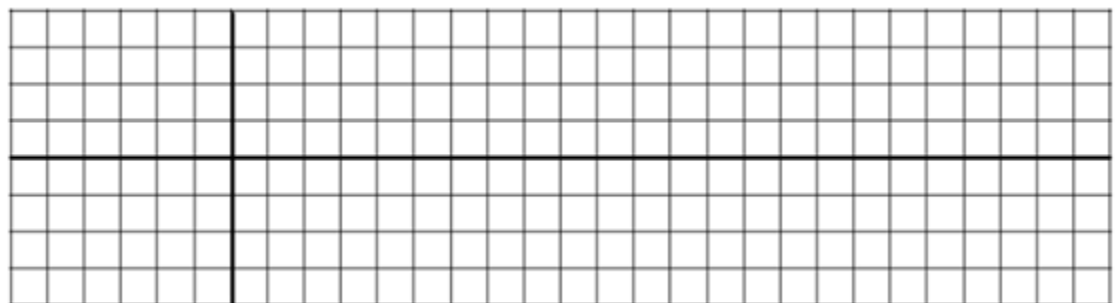
3.  $y = 2 - \sin(3x + \pi)$

Period:

Amplitude:

Vertical Shift:

Phase Shift:



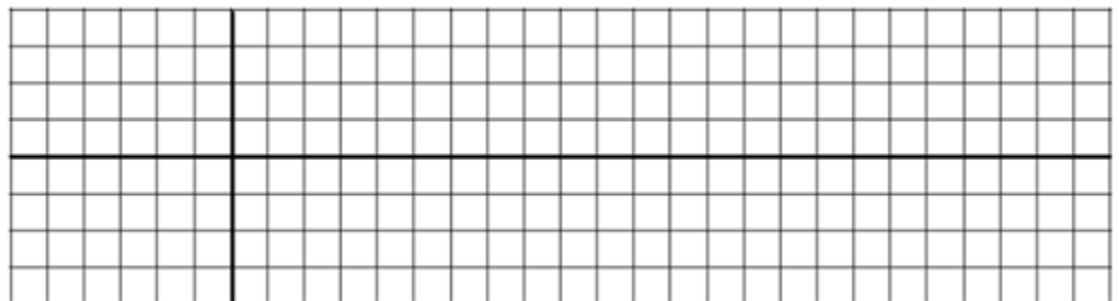
4.  $y = 2 \sin \frac{\pi}{3} x + 1$

Period:

Amplitude:

Vertical Shift:

Phase Shift:



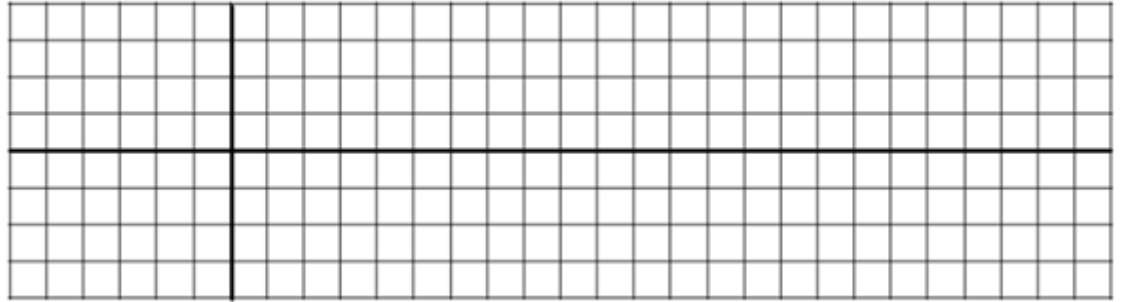
5.  $y = \cos(x - \frac{\pi}{2})$

Period:

Amplitude:

Vertical Shift:

Phase Shift:



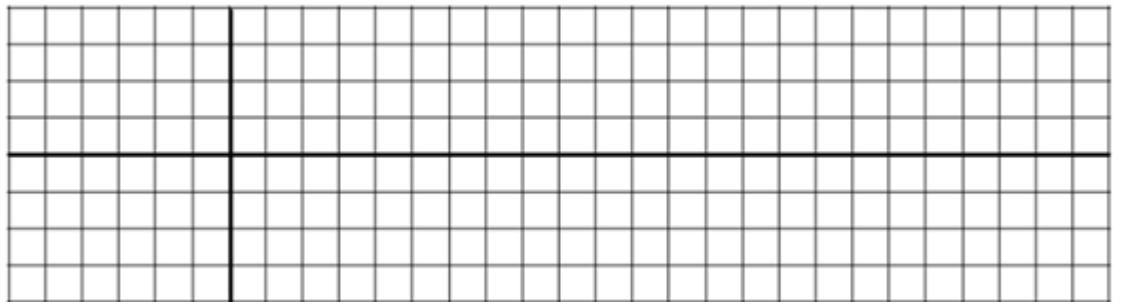
6.  $y = 2 \cos \frac{x}{3} - 1$

Period:

Amplitude:

Vertical Shift:

Phase Shift:



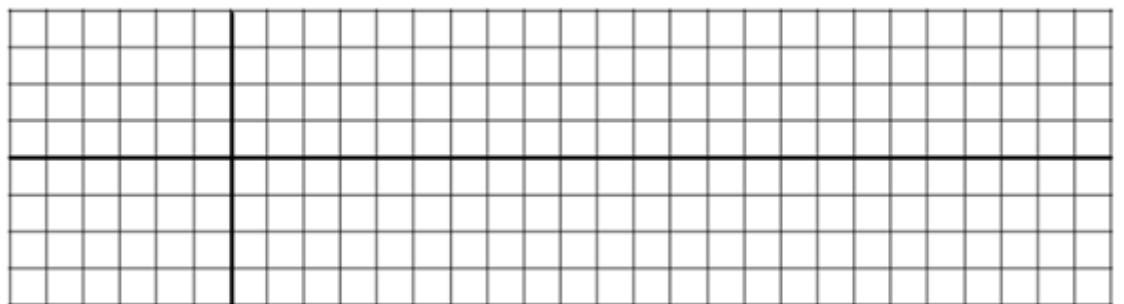
7.  $y = -\cos \frac{\pi}{4}(x - 3)$

Period:

Amplitude:

Vertical Shift

Phase Shift



8.  $y = \cos(\frac{x}{2} + \frac{\pi}{2}) + 3$

Period:

Amplitude:

Vertical Shift:

Phase Shift:

