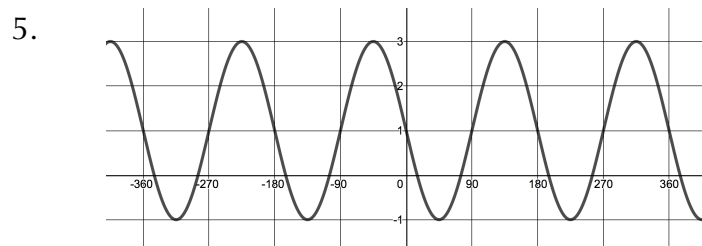


Assignment 7.3

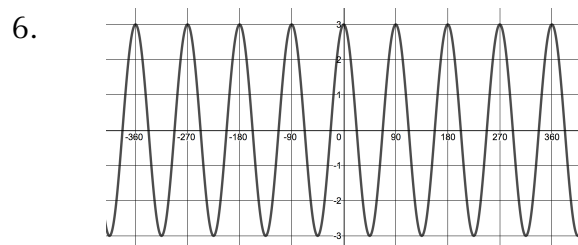
Write the trig function with the given characteristics.

1. A sine graph in degrees with an amplitude of 2, a period of  $120^\circ$ , and a vertical shift up 1.
  
2. A cosine graph in radians with an amplitude of 1, a period of  $\pi$ , a vertical shift down 2, and reflected over the center.
  
3. A cosine graph in degrees with an amplitude of 5, a period of  $72^\circ$ , and a vertical shift up 12.
  
4. A sine graph in radians with an amplitude of 1, a period of  $\frac{\pi}{4}$ , and a vertical shift down 3.

Identify the values in the given graph.



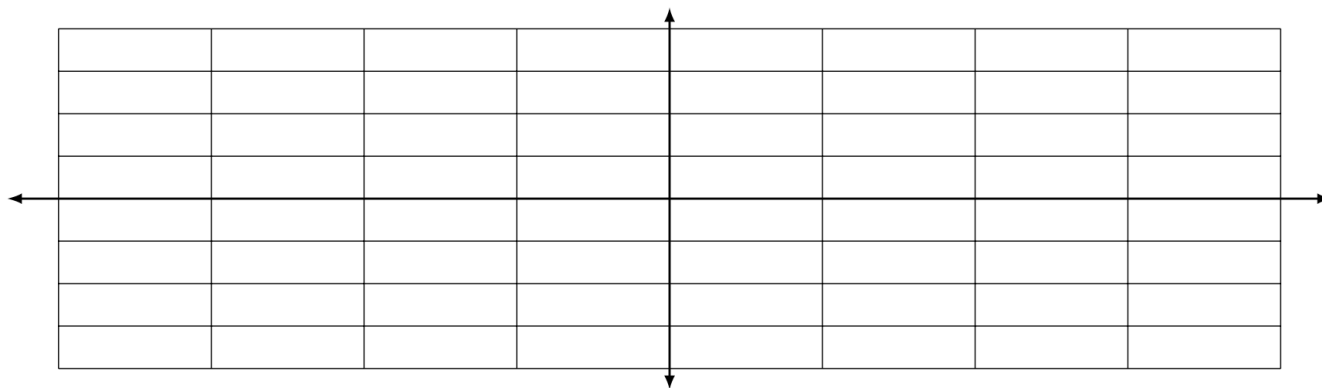
Amplitude:  
 Vertical Shift:  
 Period:



Amplitude:  
 Vertical Shift:  
 Period:

Graph each function in radians.

7.  $y = -\sin(2x) + 1$

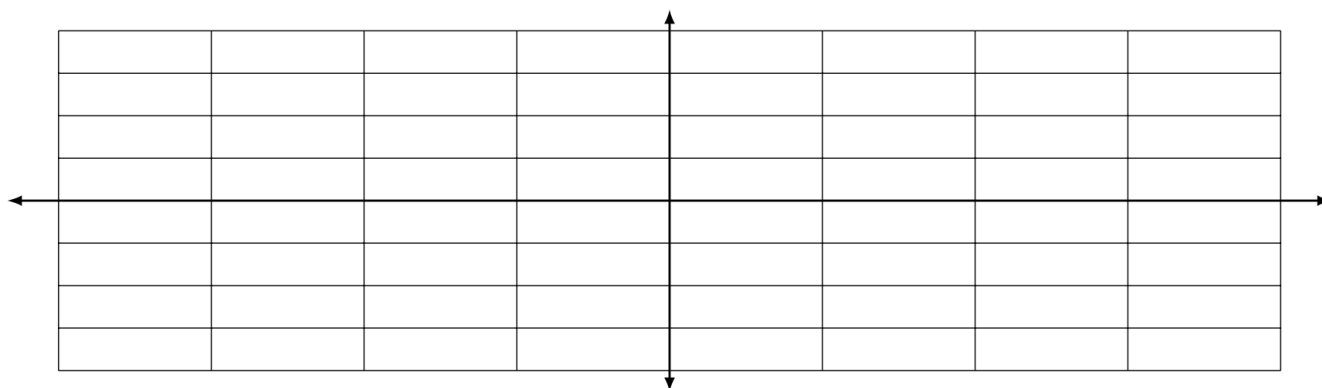


Amplitude:

Vertical Shift:

Period:

8.  $y = 2 \cos(3x) - 1$

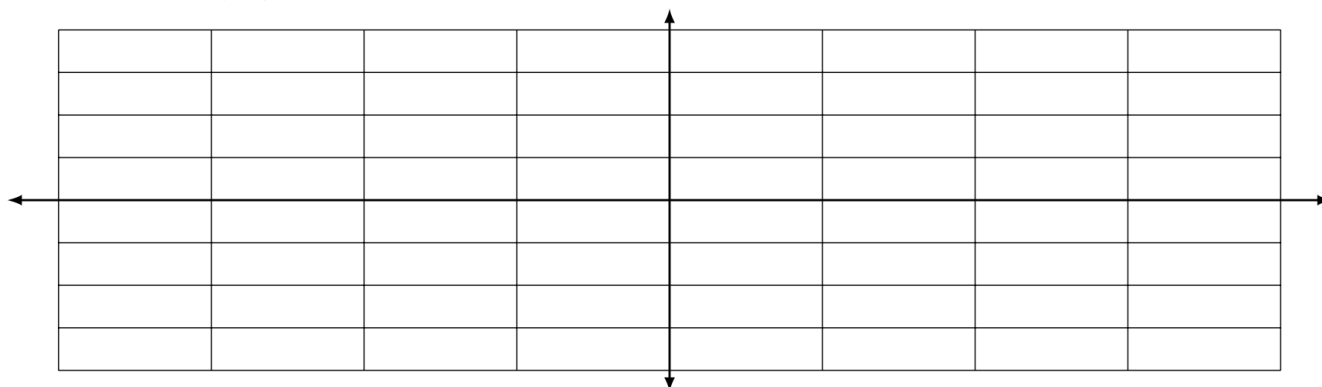


Amplitude:

Vertical Shift:

Period:

9.  $y = 3 \sin\left(\frac{1}{2}x\right)$



Amplitude:

Vertical Shift:

Period: