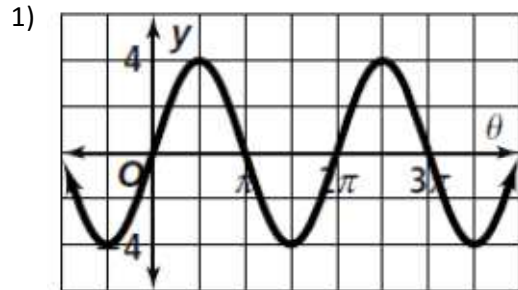


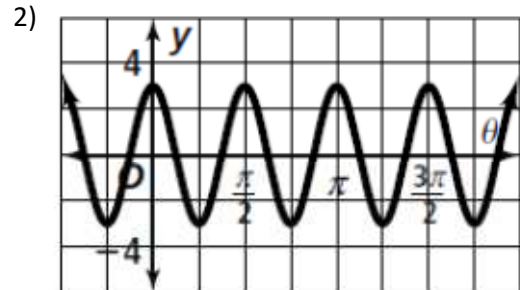
## WRITING EQUATIONS FOR TRIGONOMETRIC FUNCTIONS

Find the period, amplitude, and shifts. Then write a function for each graph.

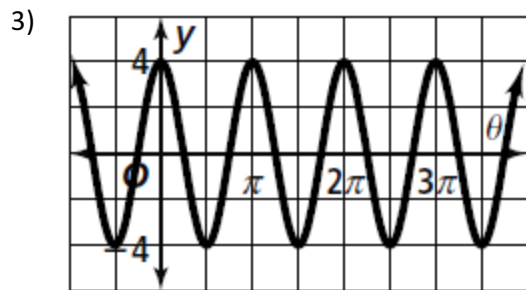
**NOTE:** If the scale is not marked on the graph, assume that each line on the x-axis is  $\frac{\pi}{4}$ .



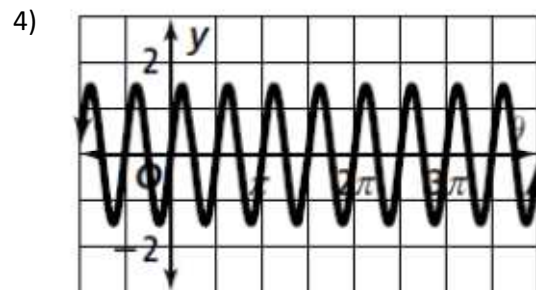
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



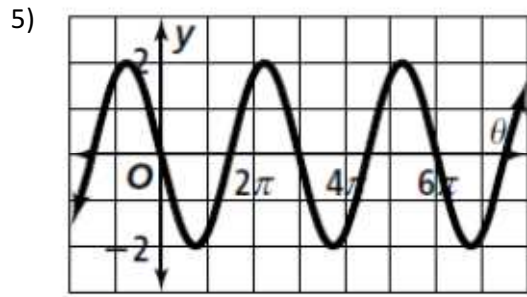
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



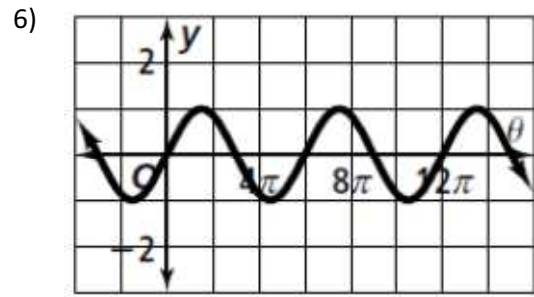
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



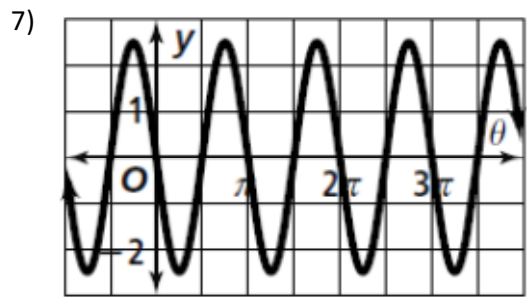
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



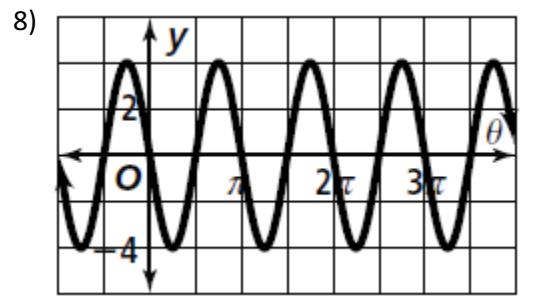
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



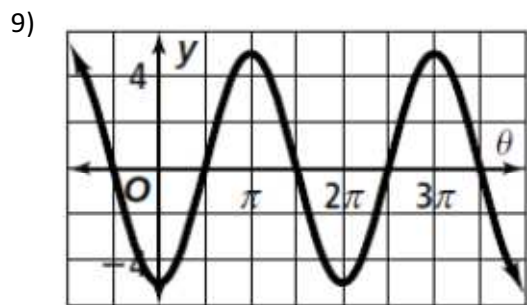
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



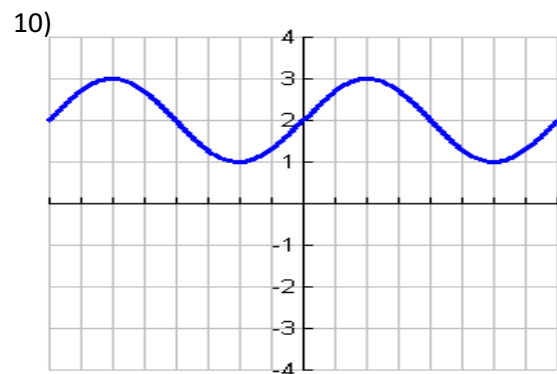
Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_

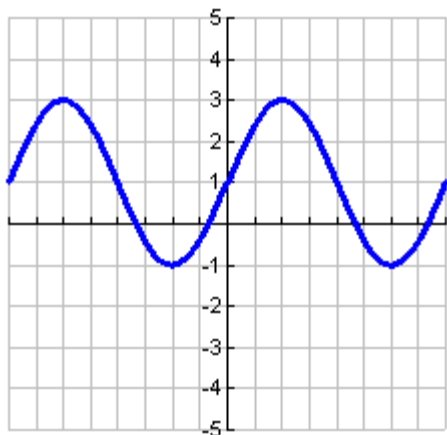


Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_



Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_  
 Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_  
 Equation: \_\_\_\_\_

11)

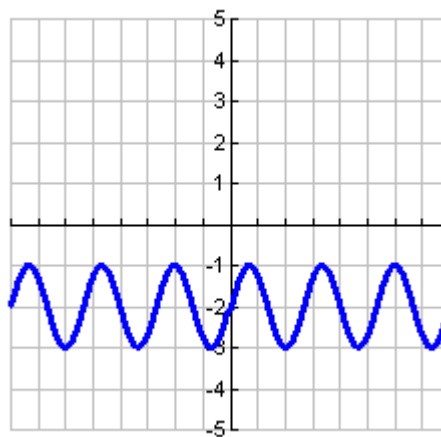


Period:                      Horizontal Shift:

Amplitude:                Vertical Shift:

Equation: \_\_\_\_\_

12)

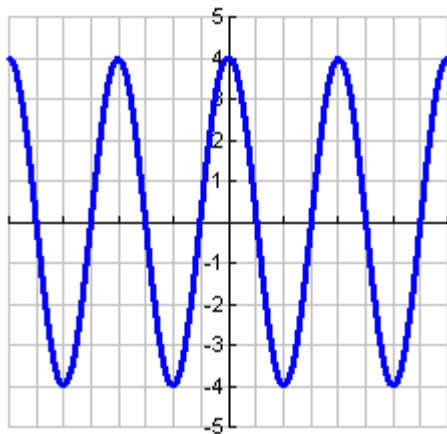


Period:                      Horizontal Shift:

Amplitude:                Vertical Shift:

Equation: \_\_\_\_\_

13)

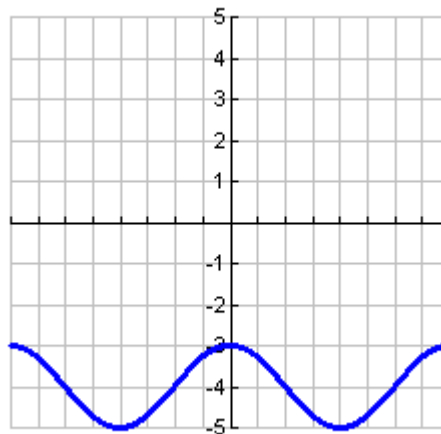


Period:                      Horizontal Shift:

Amplitude:                Vertical Shift:

Equation: \_\_\_\_\_

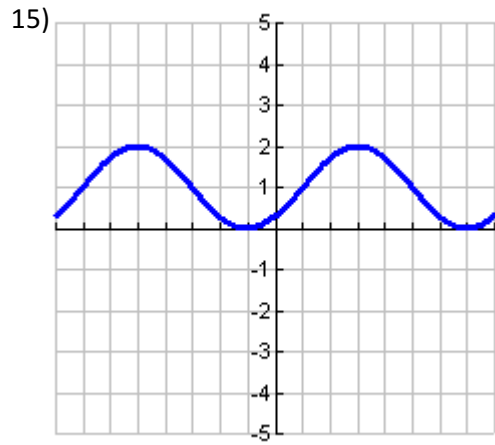
14)



Period:                      Horizontal Shift:

Amplitude:                Vertical Shift:

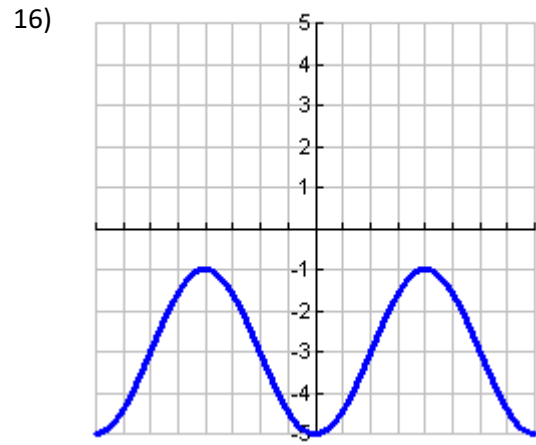
Equation: \_\_\_\_\_



Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_

Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_

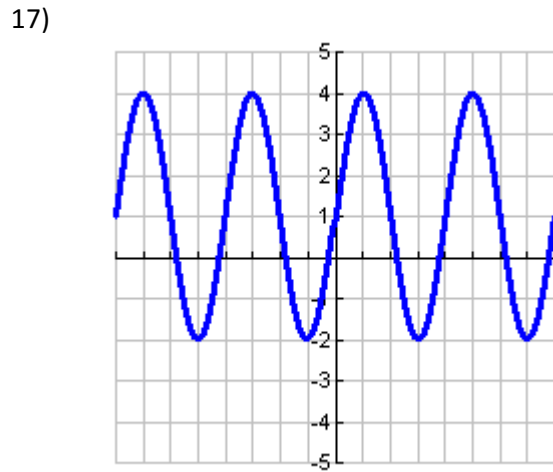
Equation: \_\_\_\_\_



Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_

Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_

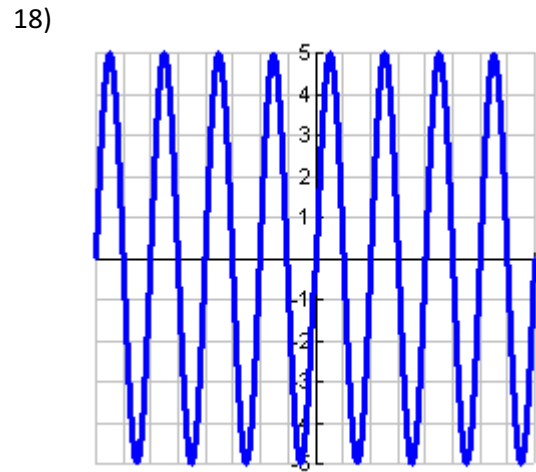
Equation: \_\_\_\_\_



Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_

Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_

Equation: \_\_\_\_\_



Period: \_\_\_\_\_ Horizontal Shift: \_\_\_\_\_

Amplitude: \_\_\_\_\_ Vertical Shift: \_\_\_\_\_

Equation: \_\_\_\_\_