



- I can write a sine or cosine function with a phase shift to model a scenario.

For the following curve, **assume there has been no reflection**. Please identify:

-the scale of the x-axis :

-the a-value (always \_\_\_\_\_ if no reflection):

-the d-value:

-the midline:

-the fundamental period (how long it takes the graph to complete a full max/min cycle):

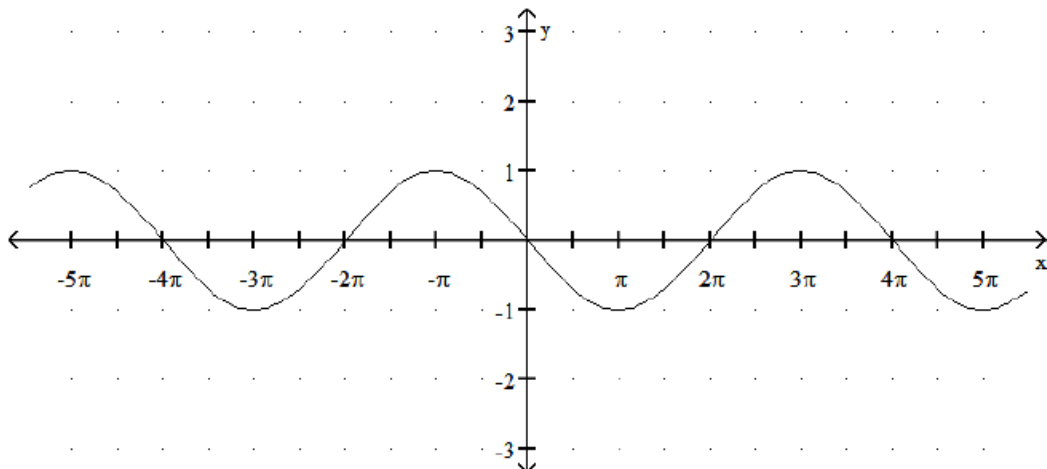
-the b-value using the fact that the fundamental period is  $\frac{2\pi}{b}$  :

-the phase shift if the curve is sine

~Pick a starting point on the midline

-the phase shift if the curve is cosine

~Pick a point starting at a maximum value



Sine equation: \_\_\_\_\_

Cosine equation: \_\_\_\_\_

For the following curve, **assume there has been no reflection**. Please identify:

-the scale of the x-axis :

-the a-value:

-the d-value:

-the midline:

-the fundamental period:

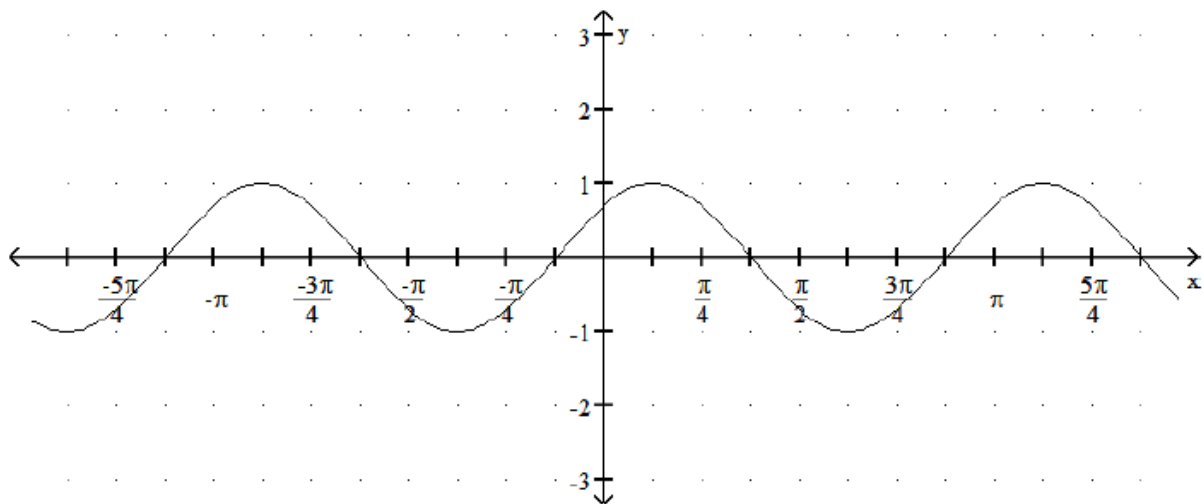
-the b-value using the fact that the fundamental period is  $\frac{2\pi}{b}$  :

-the phase shift if the curve is sine

~Pick a starting point on the midline

-the phase shift if the curve is cosine

~Pick a point starting at a maximum value



Sine equation: \_\_\_\_\_

Cosine equation: \_\_\_\_\_