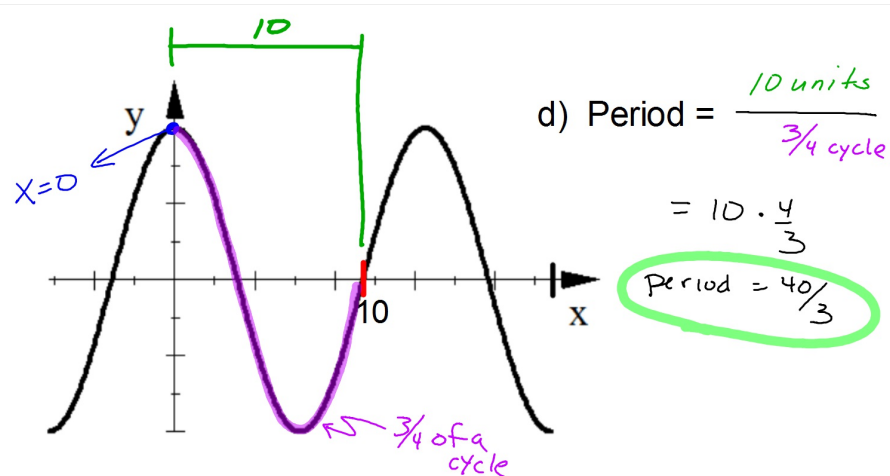
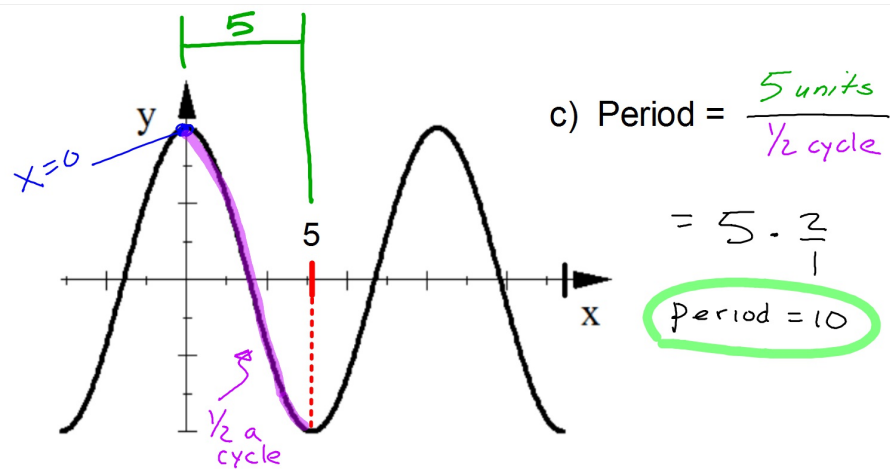
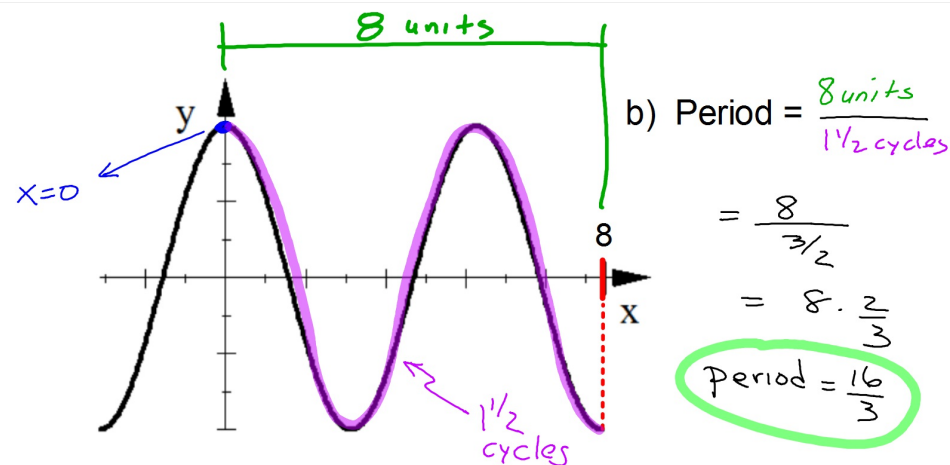
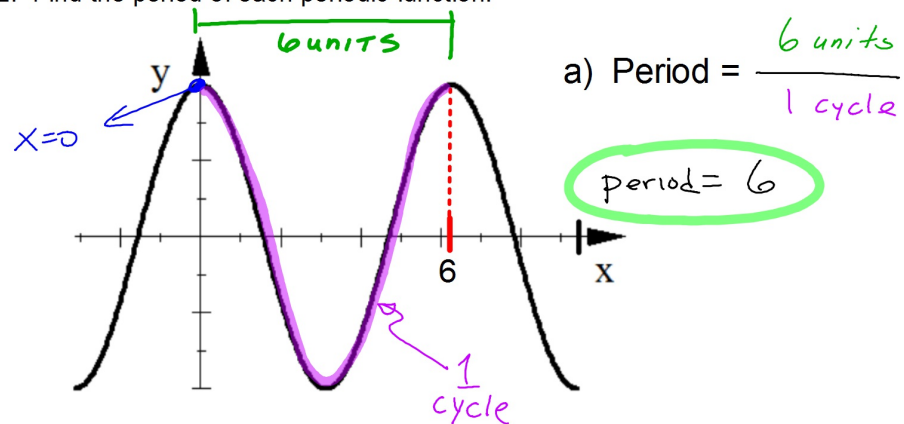
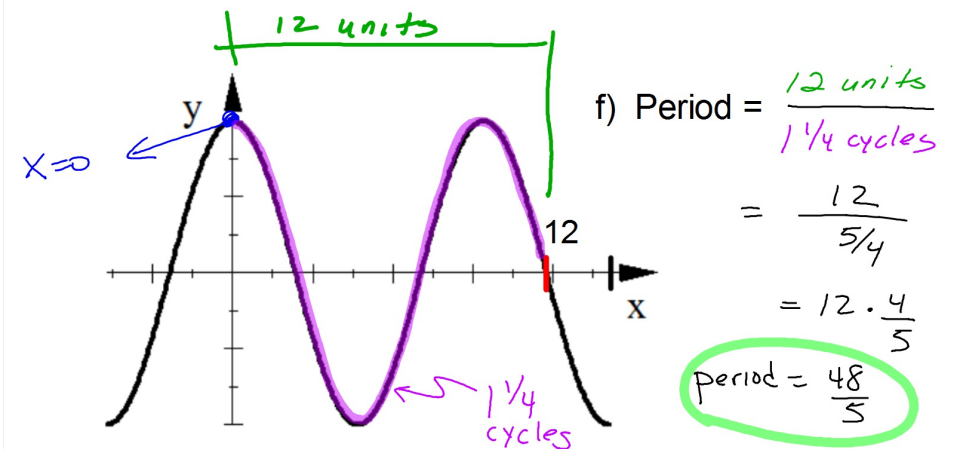
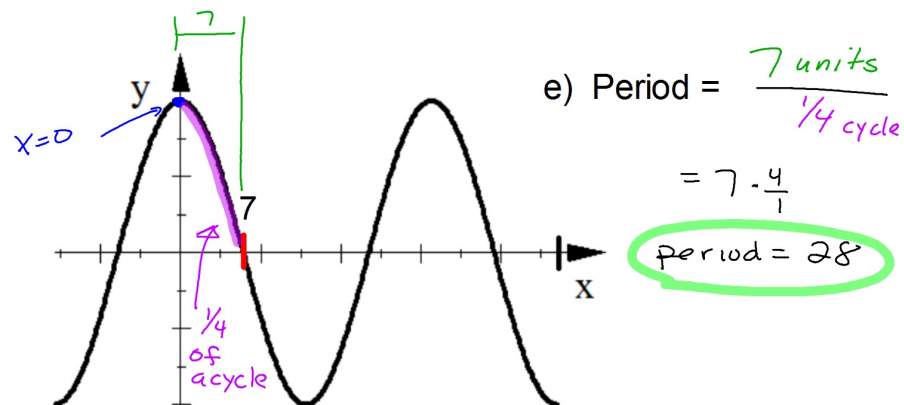


2. Find the period of each periodic function.





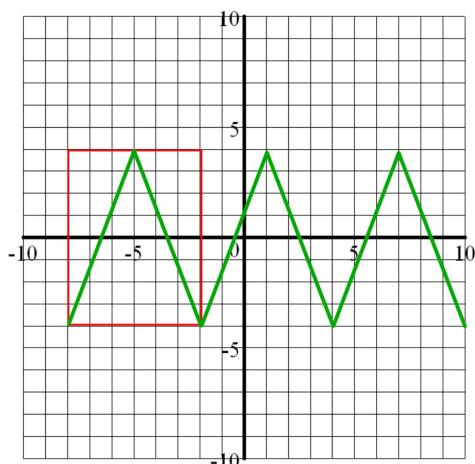
Draw a periodic function with the following properties:

Period = 6
Amplitude = 4

The period means that the cycle must be 6 units wide.

The amplitude means that the cycle must be a total of 8 units tall.

An example is shown at the right.



A cycle must be contained inside a rectangle that is 6 units wide by 8 units tall.

The starting point is arbitrary. Within this rectangle the beginning point and ending point of any cycle must have the same y-coordinate and are separated by one period. And at some time within the cycle the function has to reach the top and bottom of the cycle.

Sketch a periodic function with the following characteristics:

Period = 4
Amplitude = 7
Midline: $y = -2$

an example is shown at the right

The starting point is somewhat arbitrary. It can be anywhere between the maximum and minimum values. The ending point of a cycle must be at the same y-coordinate as the starting point of a cycle as long as it is one period away.

