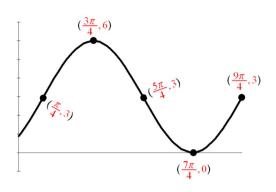
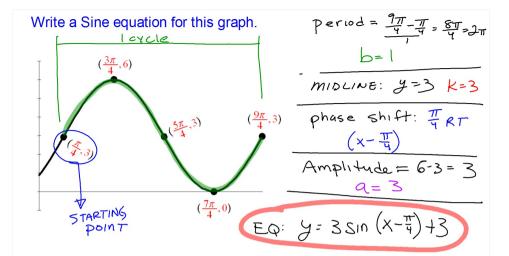
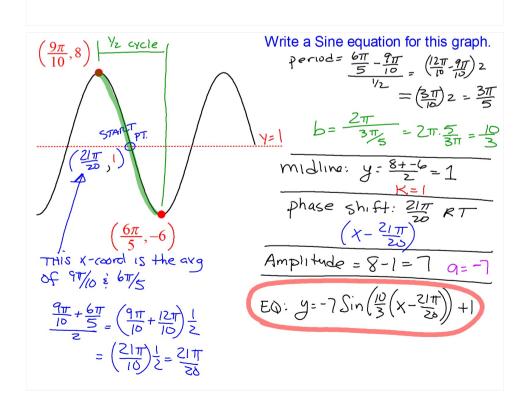
Write a Sine equation for this graph.



See next screen for answer.

Write a Sine equation for this graph. See next screen for answer. $\left(\frac{6\pi}{5}, -6\right)$





Sketch one period of the graph of

$$y = 2\sin(x - \frac{\pi}{6}) - 5$$
 See next screen for answer

Label the coordinates of all minimums, maximums, and points on the midline.

The first x-coordinate will come from the Phase Shift.

Two ways to find the remainding x-coordinates when graphing a Sine Function are:

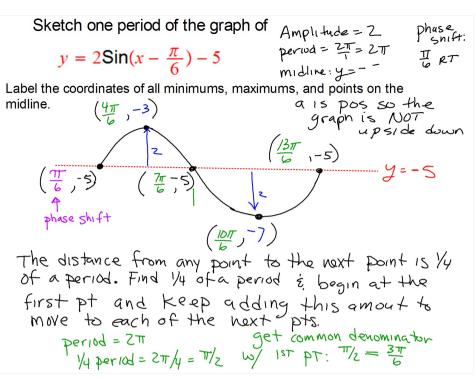
- 1. The distance from one point to the next point is 1/4 of a period. Find 1/4 of the period, get a common denominator with the first point and keep adding this 1/4 of the period to move from one x-coordinate to the next.
- 2. The distance from the first point to the last point of a cycle is 1 period. Find the period, get a common denominator with the first point and add to get the x-coordinate of the last point.
- To find the x-coordinate of the 3rd point you can average the 1st and 5th point.
- To find the x-coordinate of the 2nd point you can average the 1st and 3rd point.
- To find the x-coordinate of the 4th point you can average the 3rd and 5th point.

Sketch one period of the graph of

$$y = 7\sin(5(x + \frac{2\pi}{3})) - 1$$

Label the coordinates of all minimums, maximums, and points on the midline.

See next screen for answer



Sketch one period of the graph of
$$Amp = 7$$
 $Phase shift:$ $y = 7Sin(5(x + \frac{2\pi}{3})) - 1$ $Period = \frac{2\pi}{5}$ $Period = \frac{2\pi}{5}$ $Period = \frac{2\pi}{5}$ $Period = \frac{2\pi}{5}$ $Period = \frac{2\pi}{3}$ $Period = \frac{2\pi}{5}$ $Period = \frac{2\pi$