

After the quiz take a sheet and follow the example to do the two problems at the bottom.

$$y = a \sin bx + c$$

Vertical stretch/shrink

Amplitude = $|a|$

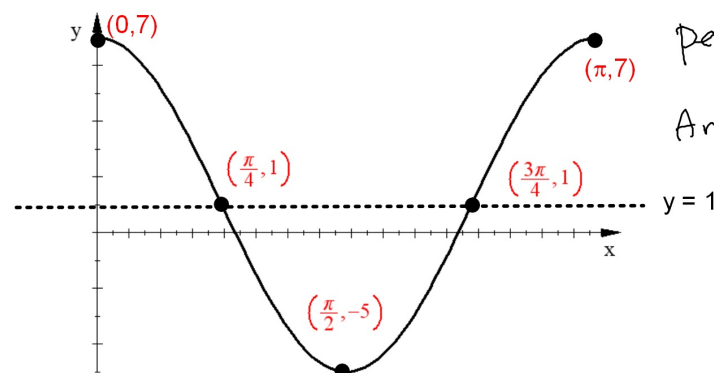
Period = $\frac{2\pi}{b}$

Horizontal stretch/shrink

Vertical Translation

Midline: $y = c$

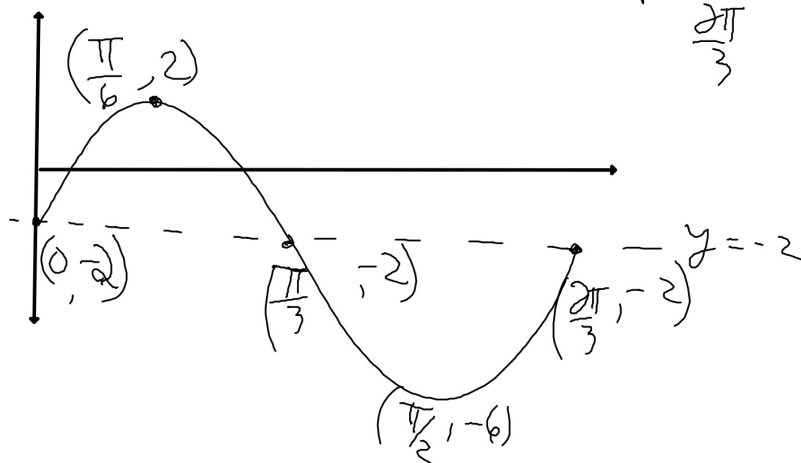
$$y = 6\cos 2x + 1$$



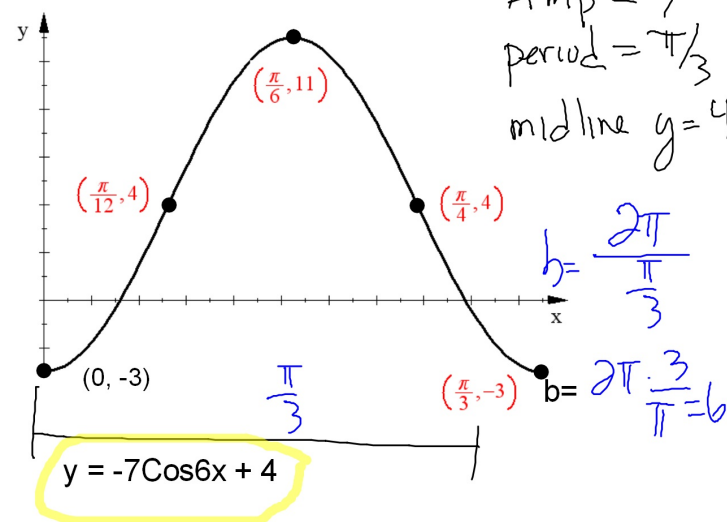
midline $y = 1$
period = $\frac{2\pi}{2}$
Amp = 6

Graph one period of this function.

$$y = 4\sin 3x - 2$$



Write the equation of this function.



Amp = 7
period = $\frac{\pi}{3}$
midline $y = 4$

$b = \frac{2\pi}{\frac{\pi}{3}} = 6$

$$y = -7\cos 6x + 4$$

Graph one period of this function.

$$y = 8\cos\frac{3x}{4} - 5$$

