

The graph of $y = 2 \sin 3x$ is the result of scaling the graph of $y = \sin 3x$ vertically away from the x -axis by a factor of 2. The graph of $y = -2 \sin 3x$ is the result of reflecting the graph of $y = 2 \sin 3x$ over the x -axis (see page 14 if you don't see why), which gives us the graph below:

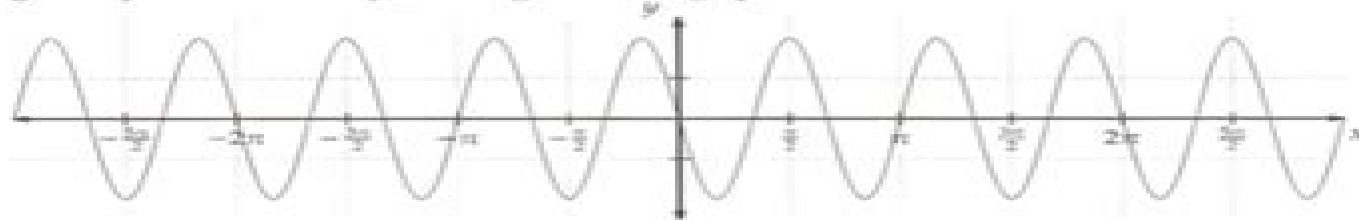


Figure 2.19: Graph $y = -2 \sin 3x$

Finally, as explained in part (a), the graph of $y = -2 \sin(3x - \frac{\pi}{4})$ is a $\frac{\pi}{12}$ rightward shift of the graph of $y = -2 \sin 3x$:

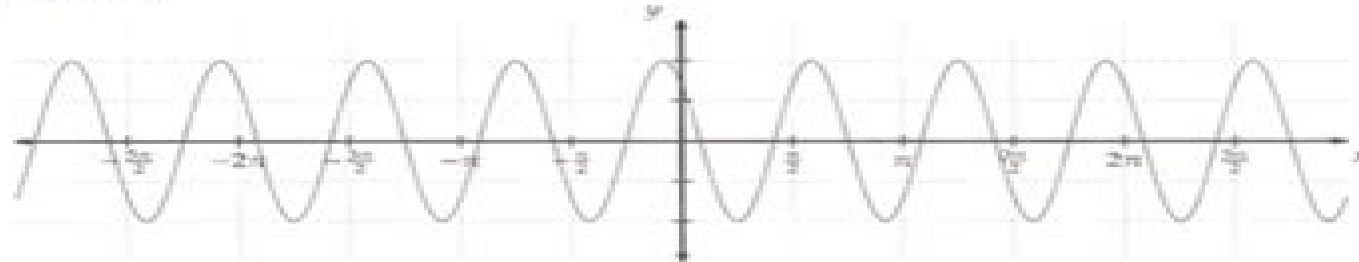


Figure 2.20: Graph $y = -2 \sin(3x - \frac{\pi}{4})$

□

Sidenote: One characteristic of trig functions that is used in physics is **frequency**. We often use frequency in conjunction with trigonometric functions of time. For example, we might have the function $A(t) = 3 \sin(12\pi t)$, where t is in seconds. The frequency of this function is the number of periods the function completes in 1 second—that is, the frequency tells us how frequently the function repeats. See if you can figure out why this definition is equivalent to defining frequency as the reciprocal of the period.

One of the reasons we study complicated-looking trigonometric functions like $f(x) = 3 \sin(4x + \pi)$ is that many processes in nature can be modeled with functions like these. You'll see such functions throughout your study of physics. For example, when you hear someone talk about frequency or wavelength in conjunction with sound, light, or even rays from outer space, they're describing a characteristic of a trigonometric function that can be used to model the sound, the light, or the space ray.

We say that $f(x)$ **varies sinusoidally** with a variable x , and that f is **sinusoidal**, if we can express f as $f(x) = a \sin(bx + c) + d$ for some constants a , b , c , and d .

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