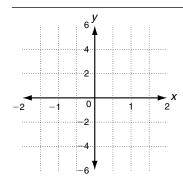
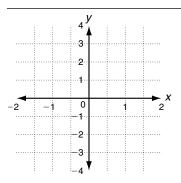
ILESSON Practice B 14-1 *Graphs of Sine and Cosine*

Using $f(x) = \sin x$ or $g(x) = \cos x$ as a guide, graph each function. Identify the amplitude and period.

1. $b(x) = -5\sin \pi x$

2. $k(x) = 3\cos 2\pi x$

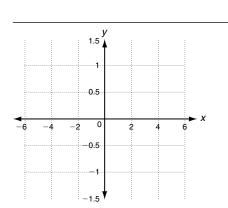


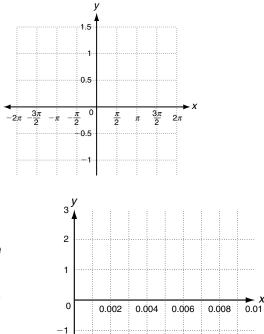


Using $f(x) = \sin x$ or $g(x) = \cos x$ as a guide, graph each function. Identify the *x*-intercepts and phase shift.

3.
$$h(x) = \sin\left(x + \frac{\pi}{4}\right)$$

4.
$$h(x) = \cos\left(x - \frac{\pi}{4}\right)$$





-2

-3

Solve.

- **5. a.** Use a sine function to graph a sound wave with a period of 0.002 second and an amplitude of 2 centimeters.
 - **b.** Find the frequency in hertz for this sound wave.

