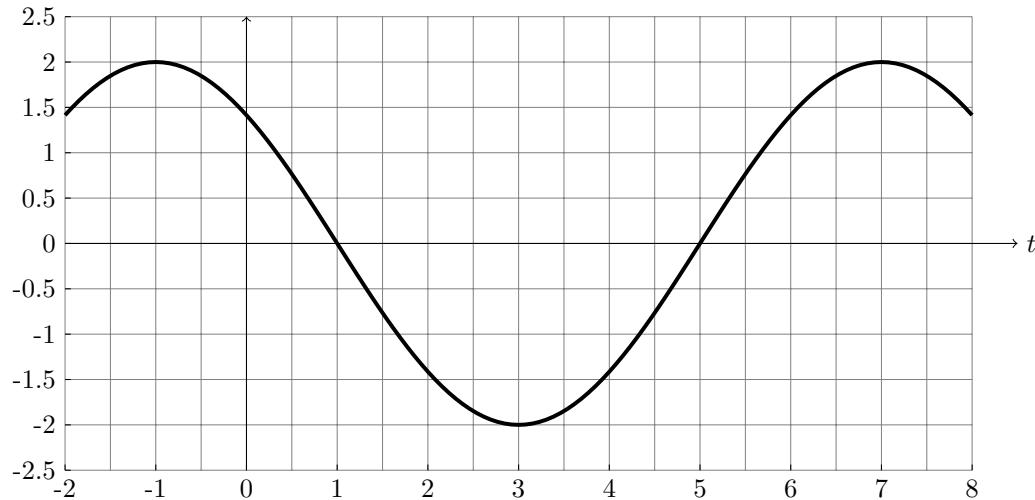


## Mystery Sinusoid

**Quiz:** Mystery Sinusoid



**Fig. 1.** Mystery sinusoid.

The graph of a sinusoidal function is displayed. The problem is to express it in the *standard form*

$$f(t) = A \cos(\omega t - \phi).$$

**Choices:**

- |   |   |                                     |
|---|---|-------------------------------------|
| a) $2 \cos(4\pi t + \frac{\pi}{4})$         | b) $2 \cos(\frac{\pi}{4}t + \frac{\pi}{4})$ | c) $2 \cos(4\pi t - \frac{\pi}{4})$ |
| d) $2 \cos(\frac{\pi}{4}t - \frac{\pi}{4})$ | e) $2 \cos(4t + 1)$                         | f) $2 \cos(4t - 1)$                 |

Pick what you think is the correct choice and then look at the answer.

MIT OpenCourseWare  
<http://ocw.mit.edu>

18.03SC Differential Equations

Fall 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.