Repeated Differentiation of Sine and Cosine

- a) For which of the functions whose graphs are displayed by the Creating the Derivative mathlet is it true that f''(x) = -f(x)?
- b) Can you think of any other functions for which f''(x) = -f(x)?

MIT OpenCourseWare http://ocw.mit.edu

18.01SC Single Variable Calculus Fall 2010

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