Let
$$f(x) = x^3 - 2x$$
.

- 1. Plot f(x) from x = -2 to x = 2.
 - (a) Where does f have local maxima? minima?
 - (b) Where is f concave up? concave down?
 - (c) Where does *f* have inflection points?
- 2. In each case, plot the graph and explain how the graphs are related to the graph of y = f(x).
 - (a) y = f(x) + 2 and y = f(x) 1
 - (b) y = f(x+2) and y = f(x-1)
 - (c) y = 2 f(x) and y = 0.5 f(x)
 - (d) y = f(2x) and y = f(0.5x)