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, explain how the graphs are related to the graph of f(x).
 - (a) f(x) + a with a = 2 and a = -1
 - (b) f(x+a) with a=2 and a=-1
 - (c) a f(x) with a = 2, a = 0.5 and a = -1
 - (d) f(a x) with a = 2, a = 0.5 and a = -1