

Consider the function $f(x) = x^3 - x$.

- (a) Find the intercepts.
- (b) Find the critical numbers.
- (c) Find intervals where the function is increasing and those where the function is decreasing.
- (d) Find the relative maxima and relative minima of the function.
- (e) Find the absolute maxima and absolute minima of the function on the interval $[-1, 2]$.
- (f) Find inflection points.
- (g) Find intervals where the function is concave up and those where the function is concave down.
- (h) Sketch the graph of the function.