



Lesson 3.2 – Polynomial Functions

1. Let $f(x) = \frac{1}{4}x^4 - 2x^2$.
 - (a) Find the x -intercepts of f .
 - (b) Find the critical points, the intervals of increase/decrease, and the local extrema of f .
 - (c) Find the intervals of concavity and the inflection points of f .
 - (d) Determine the end behavior of f .