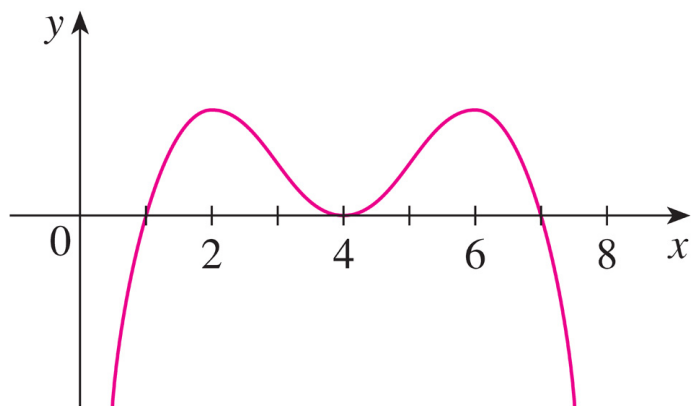


Name:

Sec. 4.3 – Derivatives and shapes of graphs

Math 251



1. In each part state the inflection points of f .

(a) The curve is the graph of f .

(b) The curve is the graph of f' .

(c) The curve is the graph of f'' .

2. For $f(x) = x^4 - 2x^2 + 3$ find

(a) The intervals on which f is increasing or decreasing.

(b) The local maximum and minimum values of f .

(c) The intervals of concavity and inflection points.