

Problem 1

Sketch $f(x) = x^5 - 10x^4$. Remember that this means: find f' and f'' , critical points, intervals of increase/decrease, local min/max, intervals of concavity, and inflection points and give a sketch of a graph that has all of these properties.

Problem 2

Give the intervals of increase/decrease, concavity, critical points and inflection points for the function $f(x) = \frac{x^2 - 3}{x - 2}$.