INTRODUCTION TO CALCULUS

MATH 1A
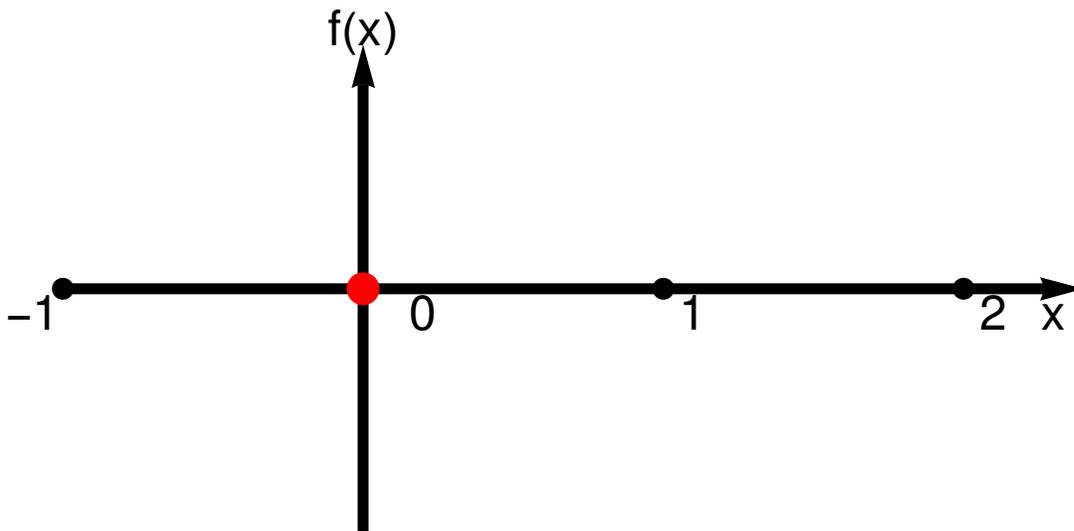
UNIT 13: WORKSHEET

Problem 1: We study here the function $f(x) = 2x^3 - 3x^2$ on the interval $[-1, 2]$.

a) Find all the critical points of f. They are all nice integers.

b) Use the second derivative test to find the local maxima and minima on $(-1, 2)$.

c) Use the information you have to sketch a graph of f.

d) Check the first derivative test.

e) Find the global maxima and minima.

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