

Name: \_\_\_\_\_

Mark: \_\_\_\_\_

**Mini-math Div 3/4: Monday, November 23, 2020 (10 minutes)**

1. Consider the function  $f(x) = 2x^3 - 9x^2 - 24x + 7$

(a) (3 points) Find the interval(s) on which  $f$  is increasing.

(b) (2 points) Find and classify the local extrema of  $f$ .

2. (3 points) Find the global maximum and minimum of  $f(x) = 2x^3 + 12x^2 - 10$  on  $[-2, 1]$ .