## MATH 141: QUIZ 7 SECTIONS 4.1-4.3

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Name:		
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**No phone or calculator.** You must show all work to receive full credit. Be sure to make reasonable simplifications.

1. (5 points) Find the absolute maximum and minimum values of  $f(x) = x(2-x)^3$  over the interval [1, 3].

Date: March 21, 2018.

- 2. (5 points) For the function  $f(x) = \frac{1}{3}x^3 x$ ,
  - (a) State the intervals of increase and decrease, and
  - (b) State the local maximum and minimum points.