

## Math 131 - Homework 2

February 17, 2021

Name \_\_\_\_\_

Score \_\_\_\_\_

The following problems are from the suggested homework. Show all work to receive full credit. Supply explanations when necessary. This assignment is due on February 24.

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1. (2 points) Use the definition of the derivative to find  $f'(3)$  if  $f(x) = \frac{3}{x^2}$ .

2. (2 points) In the online version of the textbook, do problem 39 in section 3.1.

*Turn over.*

3. (2 points) Use the definition of the derivative to find  $f'(x)$  if  $f(x) = 5x - x^2$ .

4. (2 points) In the online version of the textbook, do problem 80 in section 3.2.

5. (2 points) In the online version of the textbook, do problem 131 in section 3.3.