

Retake 5

MAT 201, SPRING 2017

NAME:

Find the derivative for each of the following functions. Apply the theorems from class instead of beginning with the definition.

1. (4 points) $y = \sqrt{x} + 2x^2 - 13e^x$

2. (4 points) $f(x) = 7x^4 - 5x^3 + 11x^2 - 5x + 3$

3. (4 points) $g(x) = \sqrt{32}$

4. The graph below shows the function

$$f(t) = 2t^2 + 4t - 2.$$

Find the equation for the tangent line to this curve at the point $(-2, -2)$. Sketch your result on the graph.

