Math 134 Spring 2018 Krystin Manguba-Glover Homework Quiz 8

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

Show all your work and simplify your answers unless otherwise specified. If you do not turn in a rewrite within a week (or after the fifth attempt), your score will be solidified.



1. Consider the function  $f(x) = x^3 + 3x^2$  whose graph is given:

(a) Find the average rate of change of f from x = -2 to x = -1. Then write the equation of the line passing through the two corresponding points.

(b) Find the average rate of change of f from x = -1 to x = 1. Then write the equation of the line passing through the two corresponding points.

2. (a) Find the equation of the line passing through the points (1, -1) and (3, 3).

(b) Find the equation of the line that is perpendicular to the line above and has x-intercept 4.

(c) Graph both of the lines.