

Quiz 1**Name:** _____**Week 2: 01/21/2020****Math 285: Spring 2020****Instructor: Garrett Hartshaw**

Instructions:

Please answer the questions below. Show all your work. You may use a TI-84/85 (or equivalent) calculator.

Problem 1. (5 points) Write an equation of a line that goes through the points $(5, 0)$ and $(-2, 3)$.

Problem 2. (5 points) Write an equation of a line that is perpendicular to $y = 3x + 7$ and has a y-intercept of 6.

Problem 3. (5 points) Find all solutions to the equation $x^2 + 3x - 4 = 0$. (Hint: It can be factored)

Problem 4. (5 points) Write the quadratic $y = 2x^2 + 3x + 1$ in the form $y = (x - h)^2 + k$ by completing the square.