

Name:

MATH 1513 – College Algebra
Quiz 6 – Ch 3.1 & Ch 3.2

Instructions: Print out this page and turn it in at the beginning of class on Thursday. Show all work. Answers with no work shown will receive no credit.

1. Determine the following and write each in the form $a + bi$ where a and b are real numbers.

a.) $(3 - 2i) + (1 + 4i)$

b.) $(3 - 2i) - (1 + 4i)$

c.) $(3 - 2i) \cdot (1 + 4i)$

d.) $\frac{3-2i}{1+4i}$

2. Solve the following quadratic equations.

a.) $(x - 1)^2 = 5$

b.) $2(x - 2)^2 - 3 = 8$

c.) $3x^2 - 5x + 2 = 0$

d.) $x^2 + 14 = 0$