## New Jersey City University Intermediate Algebra Peer-Led Team Learning Workshop 12A Quadratic Equations and Applications

## **Section 8.4**

- 1) A rectangular floor is 3 meters longer than twice its width.
  - (A) Find a function A that models the area of the floor.
  - (B) If the floor has a total square area of 27 m<sup>2</sup>, then what are the dimensions of the floor?

## **Section 8.3**

2) The fourth power of a number is one-hundred-fourteen less than twenty-five times the square of the number. Find all numbers that will satisfy the given conditions.

## Section 8.3

3) Solve for real roots:  $x^{2/3} + 2x^{1/3} - 8 = 0$