# New Jersey City University <br> Intermediate Algebra <br> Peer-Led Team Learning Workshop 12A <br> 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 $27 \mathrm{~m}^{2}$, 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: $x^{2 / 3}+2 x^{1 / 3}-8=0$
