MAT 1033 Class Worksheet 24 **Name _____**

Must show all steps and all work to earn full credit.

Solve the equation.

1) $\frac{2}{2x} - \frac{3}{x+1} = 1$

Use the quadratic formula to solve the equation.

2) $2x^2 = -5x - 7$

3) A 10 foot ladder is leaning against a vertical wall so that the distance from its base to the wall is 1 foot less than the distance from its top to the floor. How far away from the wall is the base of the ladder? Round to the nearest hundredth of a foot.

Solve the problem. (Write your answers in simplest radical form)

4) The length of a rectangle is 2 inches more than its width. If the area is 50 square inches, what are the length and width?

Solve the problem. Round your answer to the nearest tenth, if necessary.

5) The length of a rectangular flower bed is 2 feet longer than the width. If the area is 6 square feet, then what are the exact length and width?