

Name: _____

Math 260

Start Time:_____

Quiz 1 (25 min)

End Time:_____

Date:_____

1. (1 point) What does it mean for 2 systems of equations to be equivalent?
2. (3 points) What are the 3 elementary row operation?
3. (6 points) Solve the following system of equations by row reducing an augmented matrix to reduced row-echelon form (RREF). Do this problem completely by hand, show every step, and only do 1 row operation at a time. (NO CALCULATOR)

$$\begin{array}{rclcrcl} 3x_1 + & x_2 & + 2x_3 & = & 1 \\ & x_1 + & 4x_2 & - & x_3 & = & 9 \\ & 4x_1 - & 5x_2 & & & = & 3 \\ -2x_1 - & 7x_2 & + 3x_3 & = & -20 \end{array}$$