## MATH 54 - QUIZ 1

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Name: $\qquad$
Instructions: You have 10 minutes to take this quiz, for a total of 10 points. Good luck, and remember: I've got one less row-reduction, one less row-reduction...

1. (5 points) Using the reduced row-echelon form, find the general solution of the linear system corresponding to the following augmented matrix.

$$
\left[\begin{array}{cccc}
2 & -3 & 5 & 5 \\
1 & -2 & -1 & -5 \\
3 & -4 & 11 & 15
\end{array}\right]
$$

2. (5 points) For what $c$ is $\left[\begin{array}{c}c \\ 0 \\ -c\end{array}\right]$ in Span $\left\{\left[\begin{array}{l}1 \\ 0 \\ 1\end{array}\right],\left[\begin{array}{c}1 \\ -1 \\ 2\end{array}\right],\left[\begin{array}{l}c \\ 1 \\ 1\end{array}\right],\left[\begin{array}{c}1 \\ 2 \\ -1\end{array}\right]\right\}$ ?
