QUIZ 1 - MATH 305	Friday, September 1
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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Solve the system using the matrix method (elementary row operations):

$$\left\{
\begin{array}{cccc}
x_1 & -3x_3 & = & 8 \\
2x_1 & +2x_2 & +9x_3 & = & 7 \\
& x_2 & +5x_3 & = & -2
\end{array}
\right\}$$

2. Which equation should the constants a, b and c satisfy so that the matrix

$$\left[\begin{array}{ccc|c}
1 & -2 & 5 & a \\
0 & -3 & -2 & b \\
-2 & 7 & -8 & c
\end{array} \right]$$

corresponds to a consistent system?