Quiz 3, MATH 54, Fall 2014
Name (Last, First): $\qquad$
Student ID:

1. Determine if the columns of the matrix form a linearly independent set.

$$
\left[\begin{array}{ccc}
0 & 2 & 3 \\
1 & 3 & 6 \\
-1 & 1 & 0
\end{array}\right]
$$

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2. Let $T(x, y)=(2 x+y, x)$. Show that $T$ is a one-to-one linear transformation. Does $T$ map $\mathbb{R}^{2}$ onto $\mathbb{R}^{2}$ ?

