Math 2243 Fall 2015- Quiz 4
10/15/2015-10 Minutes

## Name:

Please show all necessary work completely and clearly.
(1) (6 Points) Calculate the inverse of the matrix

$$
\left(\begin{array}{lll}
2 & 0 & 1 \\
0 & 3 & 0 \\
1 & 0 & 2
\end{array}\right)
$$

(2) (4 Points) Calculate the determinant of the following matrix by expanding along the first row:

$$
\left(\begin{array}{ccc}
1 & 1 & -3 \\
2 & 11 & 3 \\
-1 & -3 & 1
\end{array}\right)
$$

