Name:

Section (time):

Math 340 Quiz 5

1.) For what values of $t \in \mathbb{R}$ is the following matrix invertible?

$$A = \left[\begin{array}{cc} 1 & t \\ -t & 91 \end{array} \right].$$

2.) (a) Using any method, compute the determinant of

$$B = \left[\begin{array}{rrr} 1 & 1 & 1 \\ 1 & 1 & 1 \\ 1 & 2 & 3 \end{array} \right].$$

(b) Using cofactor expansion, compute the determinant of

$$C = \left[\begin{array}{cccc} 1 & 0 & 0 & 9 \\ 1 & 1 & 1 & 2 \\ 1 & 1 & 1 & 1 \\ 1 & 2 & 3 & 7 \end{array} \right].$$