

Name: _____

R. Hammack

Score: _____

Directions: Please answer all questions in the space provided. Use of calculators or any form of electronic communication device is strictly forbidden on this quiz.

1. Suppose A, B and C are 3×3 matrices for which $|A| = 3$, $|B| = 5$ and $|2AB^{-1}C| = 6$. Find $|C|$.

2. Find the value(s) of k for which the matrix $\begin{bmatrix} 1 & 0 & 5 \\ 2 & 2 & 0 \\ 6 & 5 & k \end{bmatrix}$ is **not** invertible.