Name: _____ Sort #: _____

Worksheet 7

More about Inverses & Intro to Determinants MATH 2250, Fall 2018

1. Is the matrix

$$A = \begin{bmatrix} 5 & 0 & 0 \\ -3 & -7 & 0 \\ 8 & 5 & -1 \end{bmatrix}$$

invertible? Use as few calculations as possible.

2. Find the determinant of

$$B = \begin{bmatrix} 4 & 3 & 0 \\ 6 & 5 & 2 \\ 9 & 7 & 3 \end{bmatrix}$$

by hand using a cofactor expansion. Verify your calculation with your calculator.

3. Calculate the determinant of B in the previous problem by multiplying by diagonals.