

QUIZ 10
MATH 1050 SECTION 2
FALL 2009

Instructions: you may use your book and notes, but no other outside resources. To receive credit, this quiz must be turned in by the end of class on Wednesday, December 2nd. *Show all your work.*

1. 5 points. Write out a solution to problem 55, section 7.2. *Hint: let x and y represent respectively the number of student and adult tickets sold. Set up one equation for total number of tickets sold and another for total revenue. Verify your solution.*

2. 5 points. Evaluate the following expression:

$$\begin{bmatrix} 3 & 0 \\ 1 & 2 \end{bmatrix} \begin{bmatrix} 5 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 2 & -1 \\ 1 & -2 \end{bmatrix}$$

Your answer should be a single 2×2 matrix.

3. 5 points.

$$A = \begin{bmatrix} 1 & -1 & 0 \\ 2 & 3 & 2 \\ -1 & 2 & 2 \end{bmatrix}$$

Compute A^{-1} . Verify your answer by multiplying it with A .

4. 5 points. Compute the determinant of

$$\begin{bmatrix} 2 & 1 & 0 & -1 \\ 1 & 0 & 2 & 0 \\ 0 & 1 & 0 & 1 \\ 1 & 0 & 1 & 0 \end{bmatrix}.$$

5. 20 points. How much of the homework did you complete from sections 8.2, 8.3 and 8.4?