

Math 308 E, Spring 2018 quiz 3

You have 3 minutes to complete the quiz. This quiz is out of 10 points.

Name: _____

Consider the two matrices

$$A = \begin{bmatrix} 1 & -1 & 1 & 0 \\ 1 & -1 & 1 & 1 \\ -2 & 0 & 1 & 1 \\ 0 & 1 & -1 & 1 \end{bmatrix}, B = \begin{bmatrix} 2 & -1 & 0 & 1 \\ 6 & -4 & 1 & 3 \\ 5 & -3 & 1 & 2 \\ -1 & 1 & 0 & 0 \end{bmatrix}$$

1. (5 points) Compute $A \cdot B$.
2. (5 points) Are the columns of A linearly independent? (Hint: use your answer from part a .)