

## Algebra 2

### Unit: Systems of Equations and Inequalities

#### Section: Matrices and Determinants

#### Flash Cards: Basic Operations with Matrices

Directions: Perform the following operations.

1. Add two matrices. The first matrix is 2 by 2: row one is 1, negative 3, row two is 4, 2. The second matrix is 2 by 2: row 1 is 7, negative 1, row two is 0, 8.
2. Add two matrices. The first matrix is 1 by 3: row one is negative 3, 4, 8. The second matrix is 3 by 1: row 1 is 4, row two is negative 8, row three is 2.
3. Subtract two matrices. The first matrix is 3 by 1: row 1 is 2, row two is 0, row three is negative 10. The second matrix is 3 by 1: row 1 is negative 5, row two is 8, row three is 6.
4. Multiply a matrix by negative 3. The matrix is a 2 by 3: row one is 5, 10, 15, row two is negative 2, negative 4, negative 8.

Answers:

1. A 2 by 2 matrix: row one is 8, negative 4, row two is 4, 10.
2. Not possible
3. A 3 by 1 matrix: row one is 7, row two is negative 8, row three is negative 16.
4. A 2 by 3 matrix: row one is negative 15, negative 30, negative 45, row two is 6, 12, 24.