

## Algebra 2

### Unit: Systems of Equations and Inequalities

#### Section: Matrices and Determinants

#### Matching: Multiplication of Matrices

Directions: Multiply the following pairs.

1. Multiply. The first matrix is a 2 by 2: row one is 2, 3, row two is 1, 4. The second matrix is 2 by 2: row one is 1, 2, row two is 0, 3.
2. Multiply. The first matrix is 1 by 3: row one is 1, 3, 5. The second matrix is 3 by 2: row one is 1, 4, row two is 0, negative 2, row three is 2, 1.
3. Multiply. The first matrix is 3 by 2: row one is 1, 4, row two is 0, negative 2, row three is 2, 1. The second matrix is 1 by 3: row 1, 3, 5.
4. Multiply. The first matrix is a 2 by 2: row one is 2, negative 4, row two is 3, 5. The second matrix is a 2 by 2: row one is 0, 1, row two is 1, 0.

Answers:

1. A 2 by 2 matrix: row one is 2, 13, row two is 1, 14.
2. A 1 by 2 matrix: row one is 11, 3.
3. Not possible.
4. A 2 by 2 matrix: row one is negative 4, 2, row two is 5, 3.