

Name:

1. Solve the following system of equations for x and y .

$$2x + 3y = 0$$

$$x - y = 1$$

2. Consider the following matrices.

$$A = \begin{pmatrix} 0 & 2 \\ 3 & -4 \end{pmatrix}$$

$$B = \begin{pmatrix} 1 & 2 & -1 \\ 2 & -3 & 0 \end{pmatrix}$$

- (a) Is AB defined? If so, compute it.

- (b) Is BA defined? If so, compute it.