Solve the following using Matrix multiplication (show ***ALL*** work below):

Name:

Period:

1. Find **AB** if A = and B = and C =

**AB** =

(2 x 3)

1. Find **AC**

**AC** =

(2 x 3)

1. Can you solve the following equation? **BC**

If yes show all work below; if no fully explain why not.

Circle one choice: YES NO

Justify here:

1. Is matrix multiplication commutative? Test below and show all work necessary to justify:

**AB: BA:**

**AB** = **BA** =

Circle one choice: YES NO

1. Given the following: H = and K =

Predict the dimensions of the solution matrix of the following equation? **HK** = \_\_\_\_ x \_\_\_\_

1. Find the value for the matrix **CK** (Show ***ALL*** work necessary to solve):

**CK** =