Solve the following using Matrix and Determinant operations (show ***ALL*** work below):

Name:

Period:

1. Find the value of Determinant ***D***: (hint: bottom minus top)

***D*** = ***D* = \_\_\_\_\_**

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1. If **A** = ; use the set up below to find: **A-1**

**A-1 = A-1** =

Given the following Matrices solve the matrix equation below (show ***ALL*** work):

A = and B = and C = and D =

1. Solve for the matrix **X**. Plan your steps using algebraic manipulation, or orders of operations, or a combination of matrix operations as required to find and evaluate the det[X]:

**AX = B(D + C)**

**|X|** = \_\_\_\_\_\_