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1. Perform vector-matrix multiplication
 2. Perform matrix multiplication
 3. Understand when matrix operations are possible based on dimensions
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Matrix Multiplication:

Do dimensions matter?

Problem 1
Matrix Multiplication

1. $AB =$

$AD =$

2. $EF =$

$I_3H =$

3. $HGI_3 =$

$GH =$

- Does the order in which we multiply matrices matter?
- How do we know what the dimensions of the resulting matrix will be?

Challenge Problem: Try to compute the following by hand:

1. $x(AG + BH)^T - z(CF - DI_2)$.