**Chapter 3.2 – Multiplying Matrices “I Can” Sheet**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Standard:

I Can…

* Determine if two matrices can be multiplied together & explain why/why not
* Multiply matrices of various dimensions
* Explain what the solutions represent

**Items in bold should be turned in to me or put in your binder.**

**\_\_\_\_\_\_\_\_video notes**

**\_\_\_\_\_\_\_\_book assignment**

\_\_\_\_\_\_\_\_extra word problem ws

\_\_\_\_\_\_\_\_extra ws 1

\_\_\_\_\_\_\_\_pre-mc

**\_\_\_\_\_\_\_\_mastery check**

PRE-MC:

Determine whether each matrix product is defined. If so, state the new dimensions of the product.

1. (A2x5)(B5x1)
2. (C3x2)(G3x2)
3. (X3x3)(Y3x4)

Use the matrices below to evaluate the expression. If not possible, write undefined.

$$A=\left[\begin{matrix}-1&2\\-3&0\\4&1\end{matrix}\right] B=\left[\begin{matrix}3&2\\-1&-2\end{matrix}\right] C=\left[\begin{matrix}0&4\\-5&1\end{matrix}\right]$$

1. $A\left(B-C\right)$
2. $AB-BC$
3. $-\frac{1}{2}BA$
4. Solve the problem below.

