Name: _____ Period: _____ Date: _____

Adding and Subtracting Matrices Guided Notes

1. How are two matrices added?

2. Find the difference of A=$\begin{bmatrix} 8 & 3 \\ 6 & 5 \end{bmatrix}$ and B=$\begin{bmatrix} 4 & 3 \\ 2 & 8 \end{bmatrix}$.

3. What will be the sum of two matrices that have zeroes as elements?

4. What will be the subtracted value of two matrices if matrix B is having same element as matrix A?

5. If $\begin{bmatrix} 4 \\ 3 \end{bmatrix} + \begin{bmatrix} k \\ 2 \end{bmatrix} = \begin{bmatrix} 10 \\ 5 \end{bmatrix}$, then find the value of k.

PROBLEM 1

Find the sum: $\begin{bmatrix} 4 \\ -7 \end{bmatrix} + \begin{bmatrix} 3 \\ 8 \end{bmatrix}$.

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PROBLEM 2

If the order of matrix A is 3×2 and the order of matrix B is 2×2, then the order of the matrix formed by A+B will be:

a. 3×2

b. 2×2

c. 3×3

d. Doesn't exist

PROBLEM 3

State whether the following statement is true or false.

a. $A + B = A - B$ T/F

b. $A + I = I + A = A$ T/F

c. $A + 0 = 0 + A = A$ T/F

d. $A + B = B + A$ T/F

e. $A + (B + C) = (A + B) + C$ T/F

f. $A - 0 = 0 - A$ T/F