Algebra 2

Unit 3.1 – Matrix Operations "I Can Sheet"

Name: _____

Standard:
I can…

- Identify the dimensions of a matrix
- Identify specific elements from a matrix
- Add/Subtract matrices & use scalar multiplication
- Solve for missing elements in matrices

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

_____video notes

_____worksheet

_____extra video(s)

_____extra ws

_____pre-mc

_____mastery check

Pre-mc:

1. Name the element in A_{23}: $\begin{bmatrix} 2 & -3 & 0 \\ 6 & 1 & -2 \\ -12 & 5 & 24 \end{bmatrix}$

Given the matrices A, B, and C, find the following matrices (if possible). If not, write *undefined*.

$A = \begin{bmatrix} -4 & 0 & 1 \\ 4 & 2 & 5 \end{bmatrix}$ $B = \begin{bmatrix} 5 & 3 & 8 \\ 0 & 9 & -9 \end{bmatrix}$ $C = \begin{bmatrix} 11 & 3 \\ -5 & -1 \\ 0 & 7 \end{bmatrix}$

2. A-B

3. B+C

4. -5C

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Solve the matrix equation below.

5. $2G - [-4 \quad -8 \quad -9 \quad 0] = [2 \quad 14 \quad 7 \quad 16]$

Solve for x & y

6. $\begin{bmatrix} -12 & -5 \\ x & 3 \end{bmatrix} + \begin{bmatrix} 7 & 11 \\ y & -10 \end{bmatrix} = \begin{bmatrix} -5 & x \\ 25 & -7 \end{bmatrix}$