

Anexo Nashville School Valle de Ángeles



Worksheet 10th gradell Partial



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Student's Name: _____

Instructions: Read carefully each statements and then prove every single proof (in your notebook), remember follow the steps and justify every single step. And then send to my e-mail

1) Given the matrices: add or subtract or multiply

$$A = \begin{pmatrix} 2 & 0 & 1 \\ 3 & 0 & 0 \\ 5 & 1 & 1 \end{pmatrix}; \quad B = \begin{pmatrix} 1 & 0 & 1 \\ 1 & 2 & 1 \\ 1 & 1 & 0 \end{pmatrix}$$

- a) $A+B$
- b) $B-A$
- c) $2A+3B$
- d) $A*3B$ (* represent multiplication)
- e) B^{-1}
- f) Show if A and B are multiplicative Inverse (remember you need to multiply the matrix and if the answer is the identity are inverse).
- g) $\det A$ (use crammer's rule)
- h) $\det B$ (use crammer's rule)

2) Solve the system using matrices

$$\begin{cases} -2x + 3y = 8 \\ 3x - y = -5 \end{cases}$$

$$\begin{cases} -c + 4b = 2 \\ 3c - 5b = -4 \end{cases}$$

$$\begin{cases} -20f + 4n = 2 \\ 30f - 2n = -5 \end{cases}$$