ALGEBRA 2 CHAPTER M REVIEW

Name \_\_\_

Use each matrix to solve for the missing variables.

1) 
$$\begin{bmatrix} 12 & -8 & z \\ 3y-5 & 15 & -1 \\ 0 & 0.5x & 8 \end{bmatrix}$$
 =  $\begin{bmatrix} 12 & -8 & (x+y) \\ 22 & 15 & -1 \\ 0 & -9 & 8 \end{bmatrix}$  2)  $\begin{bmatrix} 2x-5y \\ x+3y \end{bmatrix}$  =  $\begin{bmatrix} 25 \\ 7 \end{bmatrix}$ 

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Use the matrices shown below to find the following operations.

A =	6 0	-1 5	B =	-1 -3	2 4	C =	4 8 -1	-2 0 -3	-1 -6 7	D =	2 2 2	0 -5 -8	
3)	A + B				4)	B – A				5)	-5D		

6) AB

7) CD

Using the same matrices from above, determine the determinants for the following.

8) | A | 9) | B | 10) | C |

Use Cramer's Rule to find the solutions to the system of equations.

11)	4x - 3y = 6	12)	x – 8y = 1
	2x + 5y = -10		5y + 5x = 95

13) x + 3y - z = 52x + 5y - z = 12x - 2y - 3z = -13