

Algebra 2: Chapter 4 Practice Test

Directions: Read each question and then complete according to the instructions. Show all of your work and circle your answer in order to receive full credit. Make sure to answer all parts of the question.

1. $\begin{bmatrix} 4 & 7 \\ -2 & 1 \end{bmatrix} + \begin{bmatrix} -9 & 3 \\ 6 & 0 \end{bmatrix} =$

2. Find the determinant of $\begin{bmatrix} 2 & 3 & 0 \\ -1 & 1 & 0 \\ 4 & 2 & 1 \end{bmatrix}$

3. A system of equations has a unique solution if the determinant of the coefficient matrix is 7.

4. Solve the system using inverse matrices (i.e. use the formula: $X = A^{-1}B$).

$$\begin{cases} 2x - y = 5 \\ x + 4y = 7 \end{cases}$$

5. True or false: To add matrices, they must have the same dimension.

6. Use Cramer's Rule to solve the system:

$$\begin{cases} -2x + 7y = 19 \\ x + 3y = 10 \end{cases}$$

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William Betz



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