Algebra 2 Chapter 4 Test Review

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

___ 1. Suppose A and B are 5×1 matrices. Which of the following are the dimensions of the matrix A + B? a. 6×6 b. 6×1 c. 5×1 d. 5×5

____ 2. A matrix contains 60 elements. Which of the following cannot equal the number of rows of the matrix?
a. 30 b. 60 c. 10 d. 18

Solve the system.

Short Answer

Solve the system.

4.
$$\begin{cases} 4x + 3y = -12 \\ -3y - 5z = -3 \\ -4x + 5z = 15 \end{cases}$$
5.
$$\begin{cases} 7x + 2y = 11 \end{cases}$$

6.
$$\begin{cases} -3x + 4y + 5z = 13\\ 5x + 5y - 2z = 26\\ x + 5y - 4z = 10 \end{cases}$$

Find the values of the variables.

7.
$$\begin{bmatrix} -2+t & 0 \\ 8 & -1 \end{bmatrix} = \begin{bmatrix} -5 & 0 \\ 8 & 1y-2 \end{bmatrix}$$

8.
$$\begin{bmatrix} 4 & 3 \\ -7 & -4 \end{bmatrix} = \begin{bmatrix} 4 & x \\ y & -4 \end{bmatrix}$$