

Student Name: _____

Score: _____

Equation in matrix

1. $2x + 3y = 10$

$5x + 4y = 3$

2. $5x + 3y - z = 4$

$x + 7y + 2z = 5$

3. $-2m + n + 8p = 6$

$8m + 2n - 5p = -1$

$-m - 5n + p = 0$

4. $5u + 3v - 2w = -1$

$-u + 7v - 5w = 4$

5. $m + 2n = 11$

$-n = 2$

6. $m + 9n + 6p = 5$

$2m - 8p = 1$

$3m - 6n + 2p = -1$

7. $2u - 6v = -8$

$5u + 3v = -7$

8. $4u + v = -12$

$-u + 7v = 45$

$8u = 31$

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Student Name: _____

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Answer Key

Equation in matrix

1. $2x + 3y = 10$

$5x + 4y = 3$

$$\begin{bmatrix} 2 & 3 & | & 10 \\ 5 & 4 & | & 3 \end{bmatrix}$$

2. $5x + 3y - z = 4$

$x + 7y + 2z = 5$

$$\begin{bmatrix} 5 & 3 & -1 & | & 4 \\ 1 & 7 & 2 & | & 5 \end{bmatrix}$$

3. $-2m + n + 8p = 6$

$8m + 2n - 5p = -1$

$-m - 5n + p = 0$

$$\begin{bmatrix} -2 & 1 & 8 & | & 6 \\ 8 & 2 & -5 & | & -1 \\ -1 & -5 & 1 & | & 0 \end{bmatrix}$$

4. $5u + 8v - 2w = -1$

$-u + 7v - 5w = 4$

5. $m + 2n = 11$

$-n = 2$

6. $m + 9n + 6p = 5$

$2m - 8p = 1$

$3m - 6n + 2p = -1$

7. $2u - 6v = -8$

$5u + 3v = -7$

$$\begin{bmatrix} 2 & -6 & | & -8 \\ 5 & 3 & | & -7 \end{bmatrix}$$

8. $4u + v = -12$

$-u + 7v = 45$

$8u = 31$

$$\begin{bmatrix} 4 & 1 & | & -12 \\ -1 & 7 & | & 45 \\ 8 & 0 & | & 31 \end{bmatrix}$$

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