

# Matrices

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Cramer's Rules

1

$$4x + 2y - 5z = -9$$

$$-5x - 3y - 6z = 1 \quad \underline{\quad (1, -4, 1) \quad}$$

$$-7x + y + 4z = -7$$

2

$$-9x + 2y = -7$$

$$4x - 8y = -4 \quad \underline{\quad}$$

3

$$-2x - y = 3$$

$$x + 2y = 0 \quad \underline{\quad}$$

4

$$2x - 6y + 3z = -9$$

$$-5x + 4y - 5z = 7 \quad \underline{\quad}$$

$$-x - 8y + z = 0$$

5

$$x - 5y + 3z = 1$$

$$-2x + 3y - 2z = -2 \quad \underline{\quad}$$

$$7x + y = -5$$

6

$$8x + 2y = -4$$

$$-3x - y = 5 \quad \underline{\quad}$$

7

$$6x + 4y + 5z = 4$$

$$-2x + 7y + z = 0 \quad \underline{\quad}$$

$$9x - 2y + 5z = -5$$

8

$$-6x - 5y = -12$$

$$x + 7y = 2 \quad \underline{\quad}$$

9

$$-5x - 4y = 6$$

$$3x + 2y = -10 \quad \underline{\quad}$$

10

$$-5x + 3y + z = 1$$

$$3x + 2y - 2z = -8 \quad \underline{\quad}$$

$$7x + 3y - 4z = -4$$

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## Cramer's Rules

1

$$4x + 2y - 5z = -9$$

$$-5x - 3y - 6z = 1 \quad \underline{\hspace{2cm} (1, -4, 1) \hspace{2cm}}$$

$$-7x + y + 4z = -7$$

2

$$-9x + 2y = -7$$

$$4x - 8y = -4 \quad \underline{\hspace{2cm} (1, 1) \hspace{2cm}}$$

3

$$-2x - y = 3$$

$$x + 2y = 0 \quad \underline{\hspace{2cm} (-2, 1) \hspace{2cm}}$$

4

$$2x - 6y + 3z = -9$$

$$-5x + 4y - 5z = 7 \quad \underline{\hspace{2cm} \text{No Solution} \hspace{2cm}}$$

$$-x - 8y + z = 0$$

5

$$x - 5y + 3z = 1$$

$$-2x + 3y - 2z = -2 \quad \underline{\hspace{2cm} (-3, 16, 28) \hspace{2cm}}$$

$$7x + y = -5$$

6

$$8x + 2y = -4$$

$$-3x - y = 5 \quad \underline{\hspace{2cm} (3, -14) \hspace{2cm}}$$

7

$$6x + 4y + 5z = 4$$

$$-2x + 7y + z = 0 \quad \underline{\hspace{2cm} (101, 52, -162) \hspace{2cm}}$$

$$9x - 2y + 5z = -5$$

8

$$-6x - 5y = -12$$

$$x + 7y = 2 \quad \underline{\hspace{2cm} (2, 0) \hspace{2cm}}$$

9

$$-5x - 4y = 6$$

$$3x + 2y = -10 \quad \underline{\hspace{2cm} (-14, 16) \hspace{2cm}}$$

10

$$-5x + 3y + z = 1$$

$$3x + 2y - 2z = -8 \quad \underline{\hspace{2cm} (90, 78, 217) \hspace{2cm}}$$

$$7x + 3y - 4z = -4$$