

Matrices

Name: _____

Date: _____

Cramer's Rules

1

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

$$2x - 6y + 3z = -5$$

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

2

$$x + 2z = 9$$

$$2y + z = 8$$

$$4x - 3y = -2$$

3

$$-8x + 2y + 4z = 16$$

$$4x - 3y - 2z = -12$$

$$-9x + 3y + 4z = -2$$

4

$$-2x + 6y - 4z = -12$$

$$7x - 2y + z = 14$$

$$3x + 5y - 2z = -20$$

5

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

$$x + y - z = 6$$

$$3x + 5y + z = 7$$

6

$$7y + 2z = 14$$

$$x + 2y = 0$$

$$-2x - 21y - 4z = -4$$

7

$$5x + 2y - 4z = 15$$

$$3x - 5y + 14z = -18$$

$$7x + 2y - 3z = -12$$

8

$$-7x - 2y + 2z = 3$$

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

$$8x - 6y - 4z = -2$$

9

$$3x - 7y - 5z = -9$$

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

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

10

$$6x - 2y - 3z = -8$$

$$-3x + 8y - 2z = -3$$

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

Matrices

Name: _____

Date: _____

Cramer's Rules

1

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

$$2x - 6y + 3z = -5 \quad \underline{(5, 6, 7)}$$

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

2

$$x + 2z = 9$$

$$2y + z = 8 \quad \underline{(1, 2, 4)}$$

$$4x - 3y = -2$$

3

$$-8x + 2y + 4z = 16$$

$$4x - 3y - 2z = -12 \quad \underline{(20, 2, 43)}$$

$$-9x + 3y + 4z = -2$$

4

$$-2x + 6y - 4z = -12$$

$$7x - 2y + z = 14 \quad \underline{(1, -9, -11)}$$

$$3x + 5y - 2z = -20$$

5

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

$$x + y - z = 6 \quad \underline{\text{No Solution}}$$

$$3x + 5y + z = 7$$

6

$$7y + 2z = 14$$

$$x + 2y = 0 \quad \underline{(16, -8, 35)}$$

$$-2x - 21y - 4z = -4$$

7

$$5x + 2y - 4z = 15$$

$$3x - 5y + 14z = -18 \quad \underline{(17, -157, -61)}$$

$$7x + 2y - 3z = -12$$

8

$$-7x - 2y + 2z = 3$$

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

$$8x - 6y - 4z = -2$$

9

$$3x - 7y - 5z = -9$$

$$-3x + 9y + 6z = -2 \quad \underline{\text{No Solution}}$$

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

10

$$6x - 2y - 3z = -8$$

$$-3x + 8y - 2z = -3 \quad \underline{(13, 10, 22)}$$

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