

Solutions – Collecting Like Terms (A)

Simplify $-4a + 3 + 4 + 7b + 8a + b$.

$$4a + 8b + 7$$

Simplify $-9y + 3 - 4y - 12 - 2y$.

$$-15y - 9$$

Simplify $-3a + a + 9a - 10 - 1$.

$$7a - 11$$

Simplify $-9 + 7a - a^2 + 4a + 6 + 6a^2$.

$$5a^2 + 11a - 3$$

Simplify $-7x - 5y + 7 - 6y - 3x - 2$.

$$-10x - 11y + 5$$

Simplify $3y^2 + 7y + 6 + 5y^2 + 8y - 1$.

$$8y^2 + 15y + 5$$

Solutions – Collecting Like Terms (B)

Simplify $7 - 3x - 3y - 7y - 4x - 8$.

$$-7x - 10y - 1$$

Simplify $4a - 3a + 4 + 5 + 6a$.

$$7a + 9$$

Simplify $8 - 2y^2 - 2y^2 + 8y + 7y + 8$.

$$-4y^2 + 15y + 16$$

Simplify $-5b - 6 + c + b - 10 + 7c$.

$$-4b + 8c - 16$$

Simplify $6x + 10 + 1 - 4x^2 + 6x^2 + 6x$.

$$2x^2 + 12x + 11$$

Simplify $-9y - 9y + 11 - 5y - 12$.

$$-23y - 1$$

Solutions – Collecting Like Terms (C)

Simplify $-5 + 10 + 5b + 8c - b + 5c$.

$$4b + 13c + 5$$

Simplify $2b^2 + 6 + 5b - 2 + 2b^2 + 3b$.

$$4b^2 + 8b + 4$$

Simplify $-7 + 5x - 8x - 3 - 7x$.

$$-10x - 10$$

Simplify $7 - 5a^2 - 8a - 7 + 2a^2 + 4a$.

$$-3a^2 - 4a + 0$$

Simplify $6 + 5a - a + 8b - 2b + 1$.

$$4a + 6b + 7$$

Simplify $-3 + 4c + 2c + 8 - 8c$.

$$-2c + 5$$

Solutions – Collecting Like Terms (D)

Simplify $6y + 8y + 6 - 11 + 6y$.

$$20y - 5$$

Simplify $6b + 2b - 6c + 6c + 8 + 7$.

$$8b + 0c + 15$$

Simplify $5y^2 - 4y^2 + 8y + 8y + 7 + 10$.

$$y^2 + 16y + 17$$

Simplify $6 - 3y + 6y - 9y - 10$.

$$-6y - 4$$

Simplify $2b - 3a - 8b + 3 - a - 9$.

$$-4a - 6b - 6$$

Simplify $-4c^2 - 4c + 9 - 8c + 4 - 3c^2$.

$$-7c^2 - 12c + 13$$

Solutions – Collecting Like Terms (E)

Simplify $-11 + 1 - 9x - 8x + x$.

$$-16x - 10$$

Simplify $-4 - 8a + 2a + 4a^2 + 7 - a^2$.

$$3a^2 - 6a + 3$$

Simplify $-5a^2 + 2a - a^2 + 7 + 8a - 4$.

$$-6a^2 + 10a + 3$$

Simplify $-1 + 1 - 4y + 4y + 6x + 7x$.

$$13x + 0y + 0$$

Simplify $-5c - 1 - 7b + 2 + 4b - 3c$.

$$-3b - 8c + 1$$

Simplify $4b - 7b - 8 + 1 - 9b$.

$$-12b - 7$$

Solutions – Collecting Like Terms (F)

Simplify $10 + 3b - 3b + 2c + 8c - 5$.

$$0b + 10c + 5$$

Simplify $2c + 2 - 5b + 3b - 6 + 5c$.

$$-2b + 7c - 4$$

Simplify $-4 - 12 - 9b - 3b - 8b$.

$$-20b - 16$$

Simplify $7y - 5y^2 - 4y^2 + 6y - 10 + 5$.

$$-9y^2 + 13y - 5$$

Simplify $x^2 - 7x + 4x^2 + 10 - 2 - 5x$.

$$5x^2 - 12x + 8$$

Simplify $-9a - 6a + 6 - 7a - 12$.

$$-22a - 6$$

Solutions – Collecting Like Terms (G)

Simplify $7a + a - 3a^2 - 4 - 10 + 3a^2$.

$$0a^2 + 8a - 14$$

Simplify $3c - 7 - 1 + 4c^2 + 4c - 3c^2$.

$$c^2 + 7c - 8$$

Simplify $-6y + 6 + 9y - 5y - 12$.

$$-2y - 6$$

Simplify $9 - 9 - 4b + 6a - b - 6a$.

$$0a - 5b + 0$$

Simplify $9b + 10 - 2b - b + 8$.

$$6b + 18$$

Simplify $-5 - x + 6y + 10 - x - 4y$.

$$-2x + 2y + 5$$

Solutions – Collecting Like Terms (H)

Simplify $7y + 9y - 4 + 4y - 12$.

$$20y - 16$$

Simplify $1 + 4y - y + 1 + 6y^2 + 2y^2$.

$$8y^2 + 3y + 2$$

Simplify $3y + 12 + 1 + 6y - 9y$.

$$0y + 13$$

Simplify $x + 3 + 8x + 4x^2 - 3x^2 + 10$.

$$x^2 + 9x + 13$$

Simplify $-6b - 3c + 1 + 7c + 9 + 8b$.

$$2b + 4c + 10$$

Simplify $10 - x - 8y - 3 - y + 8x$.

$$7x - 9y + 7$$

Solutions – Collecting Like Terms (I)

Simplify $-6b + 9b - 3b - 6 - 6$.

$$0b - 12$$

Simplify $11 + 2c - 5c - 9 + 2c$.

$$-c + 2$$

Simplify $-5y - 7y + 6 - 8 + 6y^2 - 6y^2$.

$$0y^2 - 12y - 2$$

Simplify $-2y + 3x - 6x - 7 - 3 + 4y$.

$$-3x + 2y - 10$$

Simplify $2x - 3x^2 + 10 - x^2 + 2 - 7x$.

$$-4x^2 - 5x + 12$$

Simplify $5b + 5b - 7a + 5 - 8 - 5a$.

$$-12a + 10b - 3$$

Solutions – Collecting Like Terms (J)

Simplify $3x + 4 - 2x - 7y - 9 - 5y$.

$$x - 12y - 5$$

Simplify $-3b - 6 - 5c + 6 + 3b + c$.

$$0b - 4c + 0$$

Simplify $-5 - 8b + 8b + 5b^2 - 6b^2 - 9$.

$$-b^2 + 0b - 14$$

Simplify $-9x - 8x - 6 + 6 - 7x$.

$$-24x + 0$$

Simplify $-9 + x + 11 + 9x - 8x$.

$$2x + 2$$

Simplify $-5a^2 + 2a^2 - 4 - 8 - 7a + a$.

$$-3a^2 - 6a - 12$$