

Solutions – Collecting Like Terms (A)

Simplify $6b + 7b + 2b - 8b - 5$.

$$7b - 5$$

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

$$x^2 + 11x - 6$$

Simplify $-3c + 4c^2 + 7c - 9c^2 + 2$.

$$-5c^2 + 4c + 2$$

Simplify $-5b - 8b - 8b - 4$.

$$-21b - 4$$

Simplify $x + 8x^2 - 2x + 2$.

$$8x^2 - x + 2$$

Simplify $5a + 2a - a + 3a^2$.

$$3a^2 + 6a$$

Solutions – Collecting Like Terms (B)

Simplify $2y^2 - 7y^2 - 3y$.

$$-5y^2 - 3y$$

Simplify $2c + 5c - 9c^2 + 10$.

$$-9c^2 + 7c + 10$$

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

$$-11b + 8$$

Simplify $6x^2 - 8x^2 - 3x + 4x - 3$.

$$-2x^2 + x - 3$$

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

$$9x - 4$$

Simplify $-5x^2 - 4x - 2x + 3x^2$.

$$-2x^2 - 6x$$

Solutions – Collecting Like Terms (C)

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

$$-13b^2 + 7b - 8$$

Simplify $-4b - 4b^2 - 3b + 2b - 10$.

$$-4b^2 - 5b - 10$$

Simplify $5a + a - 3a - 10$.

$$3a - 10$$

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

$$2x^2 - 7x + 3$$

Simplify $2c^2 - 7c + 5c - 8c$.

$$2c^2 - 10c$$

Simplify $6c - 5c + 8c - 3c - 8$.

$$6c - 8$$

Solutions – Collecting Like Terms (D)

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

$$-c^2 - 9c - 3$$

Simplify $9b - 7b + 6b + 5b - 6$.

$$13b - 6$$

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

$$7y^2 + 5y + 10$$

Simplify $-7b^2 - 2b + 7b + 4$.

$$-7b^2 + 5b + 4$$

Simplify $8y - 7y - 3y - 3y^2 - 4$.

$$-3y^2 - 2y - 4$$

Simplify $8x - 4x^2 - 3x - x - 9$.

$$-4x^2 + 4x - 9$$

Solutions – Collecting Like Terms (E)

Simplify $-3c + 4c + 2c - 6c - 1$.

$$-3c - 1$$

Simplify $-6a^2 - 5a^2 + 5a + 9a$.

$$-11a^2 + 14a$$

Simplify $-b^2 + 3b - 9b - 7$.

$$-b^2 - 6b - 7$$

Simplify $-9b^2 - 9b - b + 9$.

$$-9b^2 - 10b + 9$$

Simplify $-3y^2 - y - 7y + 7y + 6$.

$$-3y^2 - y + 6$$

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

$$7x + 8$$

Solutions – Collecting Like Terms (F)

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

$$c^2 + 10c$$

Simplify $7y - 4y^2 - 6y - 8y - 2$.

$$-4y^2 - 7y - 2$$

Simplify $7x^2 - 7x + 7x + 9x^2 + 3$.

$$16x^2 + 3$$

Simplify $-b^2 - b^2 - 5b^2$.

$$-7b^2$$

Simplify $8a + 8a - 3a + 6$.

$$13a + 6$$

Simplify $2a + 9a - 6a - 2$.

$$5a - 2$$

Solutions – Collecting Like Terms (G)

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

$$6b^2 - 16b - 7$$

Simplify $-7y + 7y - y + 4y + 8$.

$$3y + 8$$

Simplify $8x^2 + x + 9x$.

$$8x^2 + 10x$$

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

$$-x^2 - x - 8$$

Simplify $-5b - b - 8b^2 + 4b$.

$$-8b^2 - 2b$$

Simplify $-6a + 7a^2 + 8a - 8a - 6$.

$$7a^2 - 6a - 6$$

Solutions – Collecting Like Terms (H)

Simplify $-b + 2b + 9b^2 - 7$.

$$9b^2 + b - 7$$

Simplify $-6x^2 + x + 5x$.

$$-6x^2 + 6x$$

Simplify $b + 6b + 6b - 8b - 9$.

$$5b - 9$$

Simplify $-9x^2 + 2x^2 - x - 9x - 7$.

$$-7x^2 - 10x - 7$$

Simplify $2a + 8a + 2a + 4$.

$$12a + 4$$

Simplify $8x - 2x^2 + x - 9$.

$$-2x^2 + 9x - 9$$

Solutions – Collecting Like Terms (I)

Simplify $-3a + 3a - 9a - 4a^2 - 2$.

$$-4a^2 - 9a - 2$$

Simplify $-c + 6c - 9c$.

$$-4c$$

Simplify $-b + 7b - 3b + 9b - 4$.

$$12b - 4$$

Simplify $6c^2 - 6c - 8c + 10$.

$$6c^2 - 14c + 10$$

Simplify $-8b^2 - 9b + 7b^2 - 7$.

$$-b^2 - 9b - 7$$

Simplify $5a + 3a + 6a - 8$.

$$14a - 8$$

Solutions – Collecting Like Terms (J)

Simplify $7b^2 + 9b + 3b^2 + 2b - 8$.

$$10b^2 + 11b - 8$$

Simplify $2y - 5y + 3y$.

$$0$$

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

$$2x^2 - 9x + 10$$

Simplify $-8b - 3b - 6b + 3b - 3$.

$$-14b - 3$$

Simplify $-9y - 9y^2 + 8y^2 + 7$.

$$-y^2 - 9y + 7$$

Simplify $5y + 3y^2 - 3y + 4$.

$$3y^2 + 2y + 4$$