Simplifying Like Terms 1.5

Overview of problems

🚩 *Example Set: A*

Identify coefficients, terms, constants and like terms:

1. $8m + 3m$

2. $-6x + 2$

3. $2ab + 7 - 3ab$

4. $5y^2 + y + 2 + y^2$

5. $4m - 2m + m$

6. $-10(w - 1) + 3w + 2$

7. $-3(8x) + -5(-2x) + 4x(x)$

Simplifying Like Terms 1.5

Overview of problems

🚩   *Example Set: B*

Simplify the expressions:

1. $-7m + 2m$

2. $x + 4 + 3x - 9$

3. $6ab + 10ab$

4. $4x^2y - 3xy^2 + 2x^2y^2$

5. $2y + 2y^2 - 2y + 8$

6. $t - 10 + 2t - 3 + 4t$

7. $4w(w + 1) + 6w^2 - w + 8$

8. $-3z + 8y + 5m + z - 2y - m$

Simplifying Like Terms 1.5

Overview of problems

🚩   *Example Set: C*

Simplify the expression:

1. $6(-2x) + -5(4x) - x + 7$

2. $3z + 2(z + 5)$

3. $2(g + 6) + 4(g + 1)$

4. $-9xy + 2 + 6xy^2 + xy$

5. $4m(2m + 2) - m(6m + 1)$

Overview of problems

🚩 *Example Set: A -***ANSWER KEY***

Identify coefficients, terms, constants and like terms:

1. $8m + 3m$

   Coefficients: $3,8$ terms: $3m, 8m$ constants: none like terms: $3m, 8m$

2. $-6x + 2$

   Coefficients: -6 terms: $-6x$ constants: 2 like terms: none

3. $2ab + 7 - 3ab$

   Coefficients: $2, -3$ terms: $2ab, -3ab$ constants: 7 like terms: $2ab, -3ab$

4. $5y^2 + y + 2 + y^2$

   Coefficients: $5,1$ terms: $5y^2, y, y^2$ constants: 2 like terms: $5y^2, y^2$

5. $4m - 2m + m$

   Coefficients: $4, -2, 1$ terms: $4m, -2m, m$ constants: none like terms: $4m, -2m, m$

6. $-10(w - 1) + 3w + 2$

   Coefficients: $-10, 3$ terms: $-10w, 3w$ constants: $10, 2$ like terms: $-10w, 3w$

7. $-3(8x) + -5(-2x) + 4x(x)$

   Coefficients: $-24, 10, 4$ terms: $-24x, 10x, 4x^2$ constants: none   like terms: $-24x, 10x$

Example Set: B- ANSWER KEY

Simplify the expressions:

1. $-7m + 2m = -5m$

2. $x + 4 + 3x - 9 = 4x + -5$

3. $6ab + 10ab = 16ab$

4. $4x^2y - 3xy^2 + 2x^2y^2 = 4x^2y - 3xy^2 + 2x^2y^2$

5. $2y + 2y^2 - 2y + 8 = 2y^2 + 8$

6. $t - 10 + 2t - 3 + 4t = 7t + -13$

7. $4w(w + 1) + 6w^2 - w + 8 = 10w^2 + 3w + 8$

8. $-3z + 8y + 5m + z - 2y - m = -2z + 6y + 4m$

🚩   *Example Set:* C-**ANSWER KEY**

Simplify the expression:

1. $6(-2x) + -5(4x) - x + 7 = -33x + 7$

2. $3z + 2(z + 5) = 5z + 10$

3. $2(g + 6) + 4(g + 1) = 6g + 16$

4. $-9xy + 2 + 6xy^2 + xy = -8xy + 6xy^2 + 2$

5. $4m(2m + 2) - m(6m + 1) = 2m^2 + 7m$