

Simplifying Polynomials - Practice Worksheet

Name: _____ Date: _____

Instructions: Simplify each polynomial expression by combining all like terms. Write your final answer in standard form (descending order of degree).

1. $4x + 7x$

.....

2. $9y^2 - 3y^2$

.....

3. $5x + 3 - 2x + 8$

.....

4. $6a^2 + 4a - a^2 + 2a$

.....

5. $3x^2 + 5x - 2x^2 + 7 - 3x$

.....

6. $8m^3 - 2m^2 + 4m^3 + 5m^2 - m$

.....

7. $2x^2y + 5xy^2 - x^2y + 3xy^2$

.....

8. $(4x^2 - 3x + 1) + (2x^2 + 7x - 5)$

.....

9. $(7n^2 + 2n - 9) - (3n^2 - 4n + 2)$

.....

10. $3(2x^2 - x + 4) - 2(x^2 + 3x - 1)$

.....

Answer Key

1. $11x$

2. $6y^2$

3. $3x + 11$

4. $5a^2 + 6a$

5. $x^2 + 2x + 7$

6. $12m^3 + 3m^2 - m$

7. $x^2y + 8xy^2$

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

9. $4n^2 + 6n - 11$

10. $4x^2 - 9x + 14$