

Name _____

Combining Like Terms Worksheet 1

Simplify.

1. $-12a + 6a - 4a$

2. $5a^2 - 6a + 7a^2 + 3a - 2 + 8a + 7$

3. $9x^3 - 7x^2 + 4x^2 - x + 4x^3 - 3x^2$

4. $4ab - 6ab + 3a^2b + 4ab^2 + 5a^2b$

5. $7xy - 4x^2y^2 + 2xy^2 + 6xy + 3x^2y^2 - 7x^2y^2$

6. $8x^4 - 7x^3 + 4x^4 + 2y^3 + 3y^3$

7. $5y^5 + 4y^4 + 3y^3 - 6y^2 + 8 - 7y^3 + 11 - 6y^3$

8. $10k^4 - 45k^3 + 2k - 11k^3 + 15k^4$

9. $9x^2 + 10x - 4 + 7x - 12x^2 + 10$

10. $10c^2d^2 + 6cd^3 - 3c^2d + 5c^2d^2 - 4cd^3 + 3c^2d^2$

Identify the coefficients and constants for each expression.

11. $12x^2 + 3x - 4$

Coefficients: _____

Constants: _____

12. $3ab + 4z^2 - 5 + 17df + 11$

Coefficients: _____

Constants: _____

Combining Like Terms Worksheet 1 Answers

Simplify.

1. $-12a + 6a - 4a$

$$-10a$$

2. $5a^2 - 6a + 7a^2 + 3a - 2 + 8a + 7$

$$12a^2 + 5a + 7$$

3. $9x^3 - 7x^2 + 4x^2 - x + 4x^3 - 3x^2$

$$13x^3 - 6x^2 - x$$

4. $4ab - 6ab + 3a^2b + 4ab^2 + 5a^2b$

$$8a^2b + 4ab^2 - 2ab$$

5. $7xy - 4x^2y^2 + 2xy^2 + 6xy + 3x^2y^2 - 7x^2y^2$

$$-8x^2y^2 + 2xy^2 + 13xy$$

6. $8x^4 - 7x^3 + 4x^4 + 2y^3 + 3y^3$

$$12x^4 - 7x^3 + 5y^3$$

7. $5y^5 + 4y^4 + 3y^3 - 6y^2 + 8 - 7y^3 + 11 - 6y^3$

$5y^5 + 4y^4 - 10y^3 - 6y^2 + 19$

8. $10k^4 - 45k^3 + 2k - 11k^3 + 15k^4$

$25k^4 - 56k^3 + 2k$

9. $9x^2 + 10x - 4 + 7x - 12x^2 + 10$

$-3x^2 + 17x + 6$

10. $10c^2d^2 + 6cd^3 - 3c^2d + 5c^2d^2 - 4cd^3 + 3c^2d^2$

$18c^2d^2 - 3c^2d + 2cd^3$

Identify the coefficients and constants for each expression.

11. $12x^2 + 3x - 4$

Coefficients: $12, 3$

Constants: -4

12. $3ab + 4z^2 - 5 + 17df + 11$

Coefficients: $3, 4, 17,$

Constants: $-5, 11$