Math Antics

Worksheets

Identifying and Combining 'Like' Terms

Instructions: For each problem, if the pair of terms shown are 'Like' Terms, then combine them into a single term in the space provided. Otherwise, write "not like" if the terms can't be combined.

1 $4x$ and $6x$ — <u>10x</u>

2 $5x$ and $5y$ — <u>not like</u>

3 $2y^2$ and $2y^2$ — _____

4 x^2 and x^2 — _____

5 b^2 and $2b^3$ — _____

6 $4x^2$ and $-x^2$ — _____

7 xy^2 and yx^2 — _____

8 $-x^2$ and $-x^2$ — _____

9 $-5b^2$ and $-b^2$ — _____

10 $4x^2$ and $-4x^2$ — _____

11 $3ab^2$ and $4ab^2$ — _____

12 $4a^2$ and $-a^4$ — _____

13 $-a^4$ and $2y^4$ — _____

14 $10x^2$ and $-7x^2$ — _____

15 $8y$ and $8y$ — _____

16 $4x^2$ and $-x^2$ — _____

17 $-xy$ and $-2yx$ — _____

18 $\frac{1}{2}x$ and $\frac{1}{2}x$ — _____

19 $6c^2$ and $2c^2$ — _____

20 $-x$ and $-10x$ — _____

21 $4y^5$ and xy^4 — _____

22 $\frac{1}{3}x$ and $\frac{1}{3}x$ — _____

Name: _____

Date: _____

Period: _____

Simplifying Basic Polynomials - Set 1

SP 2

Instructions: Simplify each polynomial below by combining 'like' terms. Do your best to arrange the terms of the simplified polynomial in order from highest to lowest degree.

1 $5x + 10 - 2x + 5$

$3x + 15$

2 $12x + 10 - 2x - 8$

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

4 $5x + 4y + 7x + y$

5 $3b + 2b + b + 2$

6 $-3b - 2b - b - 2$

7 $-y + 7 + y + 3$

8 $3x + 4x^2 - 5x^2 + 1 + 15$

9 $-x^3 + x^3 + x + 4$

10 $-2x^3 + 4x^2 + 9 + x^2$

11 $3y^2 - y^2 - 2x^2 + x$

12 $-3ab + 5a + 7ab + 2b$

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Simplifying Basic Polynomials - Set 2

Instructions: Simplify each polynomial below by combining 'like' terms. Do your best to arrange the terms of the simplified polynomial in order from highest to lowest degree.

1 $3a + b - 4b + 5a$

$8a - 3b$

2 $x + 10x + 2y - 8$

3 $10x^2 - 4 - 2x^2 + x^2$

4 $3b + a - b + 2a$

5 $6y^3 - y^3 - 2x^2 + x^2$

6 $-2y + 2 + 3y + 1$

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

8 $12x + 3y + 6x + y$

9 $-4a^3 + 1 + a^3 + 7a^2$

10 $-2 + 35b - 8b - 2b$

11 $-2b + 3ab + a + 9ab$

12 $-x^3 + 2x + 2x^3 - x + x^2$

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Simplifying Longer Polynomials

25SP 4

Instructions: Simplify each polynomial below by combining 'like' terms. Do your best to arrange the terms of the simplified polynomial in order from highest to lowest degree.

1 $5x + 7 - 3x^3 + 5 - x^3$

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

2 $8x^2 + 20 - 2x^2 - 4$

3 $15 + 3y - y + 5y - 1$

4 $-5x + 4y + 7y - 8 + 2x$

5 $x + 2x^4 + 9x - 10x^4$

6 $-3a - 2ab - a + 2abc$

7 $24 + b^2 - y + 7b^2 + 2y + 4$

8 $3xy + 6 + 4x^5 - 5xy + 9$

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

10 $-2x^3 + 8x^3 + 9x^3 - x^3$

11 $6a^3 - b^2 - 2a^3 + 2c - 2b^2$

12 $x^2y + 4xy + 5yx + 2y^2x$

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