Worksheet 2

Name: _____

Date: _____

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 $6x$ — $10x$
2. $5x$ and $5y$ — not like
3. $2y^2$ and $2y^2$ — _____
4. x^2 and x^2 — _____
5. b^2 and $2b^3$ — _____
6. $4x^2$ and x — _____
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. $3a^2$ and $4a$ — _____
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. x and $2y$ — _____
18. $\frac{1}{2}x$ and $\frac{1}{2}x^2$ — _____
19. $6c^2$ and $2c^2$ — _____
20. x and $10x$ — _____
21. $4y^5$ and xy^4 — _____
22. $\frac{1}{3}x$ and $\frac{1}{3}x^3$ — _____

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Simplifying Algebraic Expressions

Instructions: Simplify each expression by combining like terms.

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. $3ab + 5a + 7ab + 2b$