

Algebra Worksheet
Simplifying Expressions

Name _____
Date _____ Period _____

Simplify the algebraic expressions .

1. $4x^m + 3x^m + 7$ _____

2. $4(3x + 2)$ _____

3. $x(2x - 1)$ _____

Simplify the expressions by using the distributive property and then collecting like terms. Show each step by filling in the blanks.

Example: $3(x + 4) + 5$	Distributive Property $3x + 12 + 5$	Collect like terms $3x + 17$
-------------------------	--	---------------------------------

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

5. $11x + 8(2x - 3)$

6. $-5(x - 2) - 3x$

7. $7(x - 3) - 3x + 4$

8. $3(2x + 8) - 24$

9. $x(x + 1) - 2x$

10. $y(y - 2) - y$

11. $x(x - 3) + x$

Simplify:

12. $8(x - 3) + 4x$ _____

13. $-2(y + 2) - 4$ _____

*14. $3(x - 2) + 4(x + 1)$ _____