

DISTRIBUTIVE PROPERTY

#18

The **Distributive Property** is used to expand a product and express it as a polynomial with two or more terms by multiplying each factor as terms of the polynomial. The resulting sum is an equivalent expression for algebraic simplification. Also see the methods, page 199. In general, the Distributive Property is expressed as:

$$a(b + c) = ab + ac \quad \text{and} \quad (b + c)a = ba + ca$$

Example 1

$$2(x + 4) = 2 \cdot x + 2 \cdot 4 = 2x + 8$$

Example 2

$$3x + 7y + 10z = (3) \cdot x + (7) \cdot y + (10) \cdot z = 3x + 7y + 10z$$

Simplify each expression below by applying the Distributive Property. Practice the distributive property on problems 18 through 22.

1. $5(x + 3)$

2. $4(x + 2)$

3. $2(x + 4y)$

4. $3(x + 4)$

5. $3(x + 4)$

6. $4(x + 4)$

7. $(2 + 3)x + 4$

8. $(2 + 3)x$

9. $-(x + 2) - 3$

10. $-(x + 2) + 3$

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

12. $-(x + 2) + 3$

13. $3(x + y) + 5z$

14. $5(x + 2) + 4z$

15. $2(x + y) + 3z$

16. $-(x + 2) + y + 3z$

17. $4(x + 2) + 3z$

18. $4(x + 2) + 3z$

19. $4(2x^2 + 3x) + 7(3)$

20. $(x + 2) + 3z$

21. $3x(2y^2 + 7) + 4(z + 3) + 5^2$

22. $4(2x^2 + 3) + 5(x + 2) + 6z$

Answers

1. $(2) \cdot (x + 3) = 2x + 6$ or $2(x) + 6 = 2x + 6$

2. $(4) \cdot (x + 2) = 4x + 8$ or $4(x) + 8 = 4x + 8$

3. $2(x) + 2(4y) = 2x + 8y$

4. $3(x) + 3(4) = 3x + 12$

5. $3(x) + 3(4) = 3x + 12$

6. $4(x) + 4(4) = 4x + 16$

7. $(2 + 3)x + 4 = 5x + 4$

8. $(2 + 3)x = 5x$

9. $-(x + 2) - 3 = -x - 5$

10. $-(x + 2) + 3 = -x + 1$

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

12. $-(x + 2) + 3 = -x + 1$

13. $3(x) + 3(y) + 5z = 3x + 3y + 5z$

14. $5(x) + 5(2) + 4z = 5x + 10 + 4z$

15. $2(x) + 2(y) + 3z = 2x + 2y + 3z$

16. $-(x + 2) + y + 3z = -x - 2 + y + 3z$

17. $4(2x^2 + 3x) + 7(3) = 8x^2 + 12x + 21$

18. $4(x^2 + 3x) + 4z = 4x^2 + 12x + 4z$

19. $4x^2 + 12x + 21$

20. $x^2 + 2x + 3z + 6$

21. $6xy^2 + 28x + 4z + 25$

22. $8x^2 + 12x + 6z + 20$

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