Answer Key · Lesson 1.4: Simplifying Expressions

School Launch · Algebra I · Unit 1 · Worksheet A · for the parent

Key

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

Simplify: $-4x + 3 + 4x$.

2. $6x + (3x + 8)$

Simplify: $3x + 8 + 6x$.

3. $6x - (3x - 7)$

Simplify: $-3x + 7 + 6x$.

4. $33x + 4$

1. Distribute: $4 + 28x + 5x$
2. Combine like terms: $33x + 4$

Simplify: $4(7x + 1) + 5x$.

5. $-14x - 36$

1. Distribute: $-36 - 18x + 4x$
2. Combine like terms: $-14x - 36$

Simplify: $6(-3x - 6) + 4x$.

6. $7x - 36$

1. Distribute: $-36 + 8x - x$
2. Combine like terms: $7x - 36$

Simplify: $4(2x - 9) - x$.

7. $-34x - 36$

1. Distribute: $-36 - 36x + 2x$
2. Combine like terms: $-34x - 36$

Simplify: $6(-6x - 6) + 2x$.

8. $6x^2 + 16x - 56$

1. Distribute: $-21 + 21x - 35 - 5x + 7x^2 - x^2$
2. Combine like terms: $6x^2 + 16x - 56$

Simplify: $3(7x - 7) - 5(x + 7) + 7x^2 - x^2$.

9. $4x^2 - 38x + 23$

1. Distribute: $-25 - 30x + 48 - 8x + 5x^2 - x^2$
2. Combine like terms: $4x^2 - 38x + 23$

Simplify: $5(-6x - 5) - 8(x - 6) + 5x^2 - x^2$.

10. $4x^2 - 24x + 52$

1. Distribute: $20 - 16x + 32 - 8x + 5x^2 - x^2$
2. Combine like terms: $4x^2 - 24x + 52$

Simplify: $4(-4x + 5) - 8(x - 4) + 5x^2 - x^2$.