

Chapter 7

Chapter 7 Maintaining Mathematical Proficiency (p. 335)

$$\begin{aligned} 1. 3x - 7 + 2x &= 3x + 2x - 7 \\ &= (3 + 2)x - 7 \\ &= 5x - 7 \end{aligned}$$

$$\begin{aligned} 2. 4r + 6 - 9r - 1 &= 4r - 9r + 6 - 1 \\ &= (4 - 9)r + 6 - 1 \\ &= -5r + 5 \end{aligned}$$

$$\begin{aligned} 3. -5r + 3 - r - 4 + 8r &= -5r - r + 8r + 3 - 4 \\ &= (-5 - 1 + 8)r + 3 - 4 \\ &= (2)r + (-1) \\ &= 2r - 1 \end{aligned}$$

$$\begin{aligned} 4. 3(x - 1) + 5 &= 3(x) - 3(1) + 5 \\ &= 3x - 3 + 5 \\ &= 3x + 2 \end{aligned}$$

$$\begin{aligned} 5. 2m - 7(3 - m) &= 2m - 7(3) - 7(-m) \\ &= 2m - 21 + 7m \\ &= 9m - 21 \end{aligned}$$

$$\begin{aligned} 6. 4(b + 6) - (b - 2) &= 4(b) + 4(6) - b - (-2) \\ &= 4b + 24 - b + 2 \\ &= 4b - b + 24 + 2 \\ &= (4 - 1)b + 24 + 2 \\ &= 3b + 26 \end{aligned}$$

$$\begin{aligned} 7. 20 &= \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \end{matrix} \cdot \begin{matrix} 2 \\ 2 \end{matrix} \cdot 5 \\ 36 &= \begin{matrix} 2 \\ 2 \\ 2 \end{matrix} \cdot \begin{matrix} 3 \\ 3 \end{matrix} \cdot 3 \cdot 3 \\ \text{The GCF of 20 and 36 is } &2 \cdot 2 = 4. \end{aligned}$$

$$\begin{aligned} 8. 42 &= 2 \cdot \begin{matrix} 3 \\ 3 \end{matrix} \cdot \begin{matrix} 7 \\ 7 \end{matrix} \\ 63 &= 3 \cdot \begin{matrix} 3 \\ 3 \end{matrix} \cdot \begin{matrix} 7 \\ 7 \end{matrix} \\ \text{The GCF of 42 and 63 is } &3 \cdot 7 = 21. \end{aligned}$$

$$\begin{aligned} 9. 54 &= 2 \cdot \begin{matrix} 3 \\ 3 \\ 3 \end{matrix} \cdot \begin{matrix} 3 \\ 3 \end{matrix} \cdot \begin{matrix} 3 \\ 3 \end{matrix} \\ 81 &= 3 \cdot \begin{matrix} 3 \\ 3 \\ 3 \\ 3 \end{matrix} \cdot \begin{matrix} 3 \\ 3 \end{matrix} \\ \text{The GCF of 54 and 81 is } &3 \cdot 3 \cdot 3 = 27. \end{aligned}$$

$$\begin{aligned} 10. 72 &= 2 \cdot \begin{matrix} 2 \\ 2 \\ 2 \end{matrix} \cdot \begin{matrix} 3 \\ 3 \end{matrix} \cdot 3 \\ 84 &= \begin{matrix} 2 \\ 2 \\ 2 \end{matrix} \cdot \begin{matrix} 3 \\ 3 \end{matrix} \cdot 7 \\ \text{The GCF of 72 and 84 is } &2 \cdot 2 \cdot 3 = 12. \end{aligned}$$

$$\begin{aligned} 11. 28 &= \begin{matrix} 2 \\ 2 \end{matrix} \cdot \begin{matrix} 2 \\ 2 \end{matrix} \cdot 7 \\ 64 &= \begin{matrix} 2 \\ 2 \\ 2 \\ 2 \end{matrix} \cdot 2 \cdot 2 \cdot 2 \cdot 2 \\ \text{The GCF of 28 and 64 is } &2 \cdot 2 = 4 \end{aligned}$$

$$\begin{aligned} 12. 30 &= 2 \cdot 3 \cdot 5 \\ 77 &= 7 \cdot 11 \end{aligned}$$

The numbers have no common prime factors. So, the GCF of 30 and 77 is 1.

13. It is not possible for two integers to have no common factors because 1 is a factor of every integer.

Chapter 7 Mathematical Practices (p. 356)

1. The algebraic expression is $3x^2 - x + 1$.

2. The algebraic expression is $-x^2 + x$.

3. The algebraic expression is $-x^2 - 2x$.

4. The algebraic expression is $x^2 + x - 1$.

5. The algebraic expression is $x^2 + 2$.

6. The algebraic expression is $x - 6$.

7. The algebraic expression is $-x^2 + 2x$.

8. The expression is 9.

9. The algebraic expression is $2x^2$.

7.1 Explorations (p. 357)

$$\begin{aligned} 1. \text{ step 1 } & (3x + 2) + (x - 5) \\ \text{ step 2 } & 4x + 2 - 5 \\ \text{ step 3 } & 4x + (2 - 2) - 3 \\ \text{ step 4 } & 4x - 3 \end{aligned}$$

$$\begin{aligned} 2. \text{ step 1 } & (x^2 + 2x + 2) - (x - 1) \\ \text{ step 2 } & (x^2 + 2x + 2) + (-x + 1) \\ \text{ step 3 } & x^2 + 2x - x + 3 \\ \text{ step 4 } & x^2 + x + (x - x) + 3 \\ \text{ step 5 } & x^2 + x + 3 \end{aligned}$$

3. **Sample answer:** If a polynomial is being subtracted, find the opposite of each of its terms. Use the Commutative and Associative Properties to rearrange the terms so that like terms are grouped together. Then add or subtract like terms.

$$\begin{aligned} 4. \text{ a. } & (x^2 + 2x - 1) + (2x^2 - 2x + 1) \\ &= x^2 + 2x^2 + 2x - 2x - 1 + 1 \\ &= (x^2 + 2x^2) + (2x - 2x) + (-1 + 1) \\ &= 3x^2 + 0 + 0 \\ &= 3x^2 \end{aligned}$$

$$\begin{aligned} \text{ b. } & (4x + 3) + (x - 2) = 4x + x + 3 - 2 \\ &= (4x + x) + (3 - 2) \\ &= 5x + 1 \end{aligned}$$

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Yicheng Fang



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