

9-4

Study Guide and Intervention

Factoring Trinomials: $ax^2 + bx + c$

Factor $ax^2 + bx + c$ To factor a trinomial of the form $ax^2 + bx + c$, find two integers, m and n whose product is equal to ac and whose sum is equal to b . If there are no integers that satisfy these requirements, the polynomial is called a **prime polynomial**.

EXAMPLE 1Factor $2x^2 + 15x + 18$.

In this example, $a = 2$, $b = 15$, and $c = 18$. You need to find two numbers whose sum is 15 and whose product is $2 \cdot 18$ or 36. Make a list of the factors of 36 and look for the pair of factors whose sum is 15.

| Factors of 36 | Sum of Factors |
|---------------|----------------|
| 1, 36 | 37 |
| 2, 18 | 20 |
| 3, 12 | 15 |

Use the pattern $ax^2 + mx + nx + c$, with $a = 2$, $m = 3$, $n = 12$, and $c = 18$.

$$\begin{aligned} 2x^2 + 15x + 18 &= 2x^2 + 3x + 12x + 18 \\ &= (2x^2 + 3x) + (12x + 18) \\ &= x(2x + 3) + 6(2x + 3) \\ &= (x + 6)(2x + 3) \end{aligned}$$

Therefore, $2x^2 + 15x + 18 = (x + 6)(2x + 3)$.

EXAMPLE 2Factor $3x^2 - 3x - 18$.

Note that the GCF of the terms $3x^2$, $3x$, and 18 is 3. First factor out this GCF.

$$3x^2 - 3x - 18 = 3(x^2 - x - 6)$$

Now factor $x^2 - x - 6$. Since $a = 1$, find the two factors of -6 whose sum is -1 .

| Factors of -6 | Sum of Factors |
|---------------|----------------|
| 1, -6 | -5 |
| -1, 6 | 5 |
| -2, 3 | 1 |
| 2, -3 | -1 |

Now use the pattern $(x + m)(x + n)$ with $m = 2$ and $n = -3$.

$$x^2 - x - 6 = (x + 2)(x - 3)$$

The complete factorization is $3x^2 - 3x - 18 = 3(x + 2)(x - 3)$.

Check Your Progress

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write *prime*.

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

2. $3m^2 - 6m - 3$
 $(3m + 1)(m - 3)$

3. $16r^2 - 8r + 1$
 $(4r - 1)(4r - 1)$

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

5. $3x^2 + 2x - 8$
 $(3x - 4)(x + 2)$

6. $18x^2 - 23x - 5$
 $(3x - 5)(6x + 1)$

7. $3a^2 + 5a + 2$
 $(2a + 3)(a + 1)$

8. $18y^2 + 9y - 5$
 $(6y + 5)(3y - 1)$

9. $-4c^2 + 19c - 21$
 $(4c - 7)(3 - c)$

10. $8x^2 - 4x - 24$
 $(4x - 8)(2x + 3)$

11. $28p^2 + 60p - 25$
 $(2p + 5)(14p - 5)$

12. $48r^2 + 22r - 15$
 $(6x + 5)(8x - 3)$

13. $3y^2 - 6y - 24$
 $3(y + 2)(y - 4)$

14. $4x^2 + 36x - 48$
 $2(x + 8)(2x - 3)$

15. $8m^2 - 44m + 48$
 $4(2m - 3)(m - 4)$

16. $4x^2 - 7x + 18$
prime

17. $2a^2 - 14a + 18$
 $2(a^2 - 7a + 9)$

18. $18 + 11y + 2y^2$
prime

Glencoe Algebra 1 Answer Key

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