

## 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 1**Factor  $2x^2 + 15x + 18$ .

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

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

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*

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**M Tight**



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