

8-3 Study Guide and Intervention

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

Factor $x^2 + bx + c$ To factor a trinomial of the form $x^2 + bx + c$, find two integers, m and n , whose sum is equal to b and whose product is equal to c .

Factoring $x^2 + 2x + 3$ $x^2 + 2x + 3 = (x + m)(x + n)$, where $m + n = 2$ and $mn = 3$

EXAMPLE 1 Factor each trinomial.

a. $x^2 + 7x + 10$

In this trinomial, $b = 7$ and $c = 10$.

Factors of 10	Sum of Factors
1, 10	11
2, 5	7

Since $2 + 5 = 7$ and $2 \cdot 5 = 10$, let $m = 2$ and $n = 5$.

$$x^2 + 7x + 10 = (x + 2)(x + 5)$$

b. $x^2 - 8x + 7$

In this trinomial, $b = -8$ and $c = 7$.

Notice that $m + n$ is negative and mn is positive, so m and n are both negative.

Since $-2 + (-1) = -3$ and $(-2)(-1) = 2$, $m = -2$ and $n = -1$.

$$x^2 - 8x + 7 = (x - 2)(x - 1)$$

EXAMPLE 2 Factor $x^2 + 6x - 16$.

In this trinomial, $b = 6$ and $c = -16$. This means $m + n$ is positive and mn is negative. Make a list of the factors of -16 , where one factor of each pair is positive.

Factors of -16	Sum of Factors
1, -16	-15
$-1, 16$	15
2, -8	-6
$-2, 8$	6

Therefore, $m = -2$ and $n = 8$.

$$x^2 + 6x - 16 = (x - 2)(x + 8)$$

EXAMPLE 3 Factor each trinomial.

1. $x^2 + 4x + 3$

2. $m^2 + 12m + 32$

3. $x^2 - 3x + 2$

4. $x^2 - x - 6$

5. $x^2 - 6x - 21$

6. $x^2 - 22x + 121$

7. $x^2 - 6x - 12$

8. $p^2 - 14p + 44$

9. $q - 10q + q^2$

10. $x^2 + 8x + 5$

11. $x^2 + 8x - 9$

12. $y^2 - 7y - 8$

13. $x^2 - 2x - 3$

14. $y^2 + 14y + 13$

15. $m^2 + 5m + 20$

16. $x^2 + 12x + 20$

17. $x^2 - 14x + 24$

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

19. $x^2 + 2xy + y^2$

20. $x^2 - 4xy + 4y^2$

21. $x^2 + 6xy - 7y^2$

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