

Extra Example 1 Factoring Trinomials of the Form $x^2 + bx + c$

Factor $x^2 - 2x - 48$.

SOLUTION

You want $x^2 - 2x - 48 = (x + m)(x + n)$ where $m + n = -2$ and $mn = -48$. Find factors of -48 . Taking $m = -8$ and $n = 6$ gives $x^2 - 2x - 48 = (x - 8)(x + 6)$.

Extra Example 2 Factoring a Trinomial of the Form $ax^2 + bx + c$

Factor $4y^2 - 4y - 3$.

SOLUTION

You want $4y^2 - 4y - 3 = (ky + m)(ly + n)$ where k and l are factors of 4 and m and n are factors of 3. Check possible factorizations by multiplying.

$$(4y - 3)(y + 1) = 4y^2 + y - 3$$

$$(4y - 1)(y + 3) = 4y^2 + 11y - 3$$

$$(2y - 1)(2y + 3) = 4y^2 + 4y - 3$$

$$(2y - 3)(2y + 1) = 4y^2 - 4y - 3 \quad \checkmark$$

► The correct factorization is $4y^2 - 4y - 3 = (2y - 3)(2y + 1)$.

Extra Example 3 Factoring with Special Patterns

Factor the quadratic expression.

$$\begin{aligned} \text{a. } 16y^2 - 225 &= (4y)^2 - (15)^2 && \text{Difference of two squares} \\ &= (4y - 15)(4y + 15) \end{aligned}$$

$$\begin{aligned} \text{b. } 4z^2 - 12z + 9 &= (2z)^2 + 2(2z)(-3) + (-3)^2 && \text{Perfect square trinomial} \\ &= (2z - 3)^2 \end{aligned}$$

$$\begin{aligned} \text{c. } 36w^2 + 60w + 25 &= (6w)^2 + 2(6w)(5) + 5^2 && \text{Perfect square trinomial} \\ &= (6w + 5)^2 \end{aligned}$$

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