

# Factoring: *Trinomials of the form $ax^2 + bx + c$* *(Trinomials part 2)*

---

Factor the trinomials completely.

1.  $3x^2 + 22x + 24$

7.  $4x^2 - 36x + 80$

2.  $4y^2 - 4y - 15$

8.  $15a^2 + 17a - 42$

3.  $6m^2 - 17m - 28$

9.  $12y^2 - 25y - 117$

4.  $9x^2 + 12x + 4$

10.  $6m^2 - 44m + 48$

5.  $6a^2 - 3a - 18$

11.  $32x^2 + 40x - 12$

6.  $4x^2 + 43x + 30$

12.  $6x^2 + 23xy + 20y^2$

## ANSWERS:

1.  $(3x + 4)(x + 6)$

4.  $(3x + 2)^2$

7.  $4(x - 4)(x - 5)$

10.  $2(3m - 4)(m - 6)$

2.  $(2y + 3)(2y - 5)$

5.  $3(2a + 3)(a - 2)$

8.  $(5a - 6)(3a + 7)$

11.  $4(2x + 3)(4x - 1)$

3.  $(6m + 7)(m - 4)$

6.  $(4x + 3)(x + 10)$

9.  $(4y + 9)(3y - 13)$

12.  $(3x + 4y)(2x + 5y)$