

Factoring Trinomials of the Form $ax^2 + bx + c$

Write each trinomial in factored form.

1 $p^2 + 2p - 3$

2 $11q^2 - 54q + 63$

3 $a^2 - 8a + 7$

4 $x^2 - 11x + 30$

5 $3x^2 + 4x - 4$

6 $6x^2 + x - 2$

7 $6x^2 - x - 15$

8 $3r^2 - 9r + 6$

9 $3b^2 + 21b + 30$

10 $x^2 - 2x - 15$

Factoring Trinomials of the Form $ax^2 + bx + c$

Answers

1 $p^2 + 2p - 3$

$(p + 3)(p - 1)$

2 $11q^2 - 54q + 63$

$(11q - 21)(q - 3)$

3 $a^2 - 8a + 7$

$(a - 1)(a - 7)$

4 $x^2 - 11x + 30$

$(x - 6)(x - 5)$

5 $3x^2 + 4x - 4$

$(x + 2)(3x - 2)$

6 $6x^2 + x - 2$

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

7 $6x^2 - x - 15$

$(2x + 3)(3x - 5)$

8 $3r^2 - 9r + 6$

$3(r - 2)(r - 1)$

9 $3b^2 + 21b + 30$

$3(b + 2)(b + 5)$

10 $x^2 - 2x - 15$

$(x - 5)(x + 3)$