

Ex1

Factorise the following quadratic expression into double brackets.

$$x^2 - 11x + 10$$

Ex2

Factorise the following quadratic expression into double brackets.

$$x^2 - 5x + 6$$

Ex3

Factorise the following quadratic expression into double brackets.

$$x^2 + 4x - 60$$

Q1

Fill in the missing boxes to make the following true.

[a] $x^2 + \boxed{}x - 18 = (x + 6)(x - 3)$

[b] $x^2 + \boxed{}x - 8 = (x + 4)(x - 2)$

[c] $x^2 + \boxed{}x - \boxed{} = (x - 1)(x + 9)$

[d] $x^2 + \boxed{}x \boxed{} = (x + 8)(x - 4)$

[e] $x^2 + 5x - 66 = (x + \boxed{})(x - 6)$

[f] $x^2 + 5x - 6 = (x + \boxed{})(x - 1)$

[g] $x^2 + 4x - 21 = (x \boxed{})(x \boxed{})$

Q2 Factorise the following quadratic expressions into double brackets.

[a] $x^2 + 2x - 3$

[b] $x^2 + 2x - 15$

[c] $x^2 + 2x - 35$

[d] $x^2 + 5x - 14$

[e] $x^2 + 3x - 4$

[f] $x^2 + 4x - 12$

[g] $x^2 + x - 20$

[h] $x^2 + x - 12$

[i] $x^2 + x - 90$

[j] $x^2 + 2x - 99$

[k] $x^2 + 6x - 55$

[l] $x^2 + 9x - 90$

[m] $x^2 + 5x - 50$

[n] $x^2 + 8x - 48$

[o] $x^2 + 12x - 28$

[p] $x^2 + 3x - 180$