Ex1

Factorise the following quadratic expression into double brackets.

$$x^2 + 9x + 18$$

Ex2

Factorise the following quadratic expression into double brackets.

$$x^2 + 10x + 24$$

Q1

Fill in the missing boxes to make the following true.

[a] $x^2 + \square x + 16 = (x + 2)(x + 8)$

[b] $x^2 + \square x + 12 = (x + 6)(x + 2)$

[c] $x^2 + 11x + \square = (x + 5)(x + 6)$

[d] $x^2 + 13x + \square = (x + 4)(x + 9)$

[e] $x^2 + 9x + 8 = (x + 1)(x + \square)$

[f] $x^2 + 3x + 2 = (x + \square)(x + 1)$

[g] $x^2 + 10x + 21 = (x + \square)(x + \square)$

Q2

Factorise the following quadratic expressions into double brackets.

[a] $x^2 + 4x + 3$

[b] $x^2 + 7x + 10$

[c] $x^2 + 9x + 20$

[d] $x^2 + 12x + 36$

[e] $x^2 + 10x + 25$

[f] $x^2 + 8x + 7$

[g] $x^2 + 13x + 22$