Ex3

Factorise the following quadratic expression into double brackets.

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

Ex4

Factorise the following quadratic expression into double brackets.

$$x^2 - 7x - 8$$

Q2

Write the letter of the quadratic expression next to its factorised double bracket.

[a] $x^2 - 2x - 8$

[b] $x^2 - 4x - 45$

[c] $x^2 + 2x - 80$

[d] $x^2 - x - 6$

[e] $x^2 - 6x - 55$

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

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

Double brackets	Letter
$(x + 5)(x - 4)$	
$(x + 2)(x - 3)$	
$(x + 2)(x - 4)$	
$(x + 10)(x - 8)$	
$(x + 5)(x - 9)$	
$(x + 4)(x - 1)$	
$(x + 5)(x - 11)$	

Q3

Fill in the missing boxes to make the following true.

[a] $x^2 + x + 2x - \square = (x + 10)(x - 7)$

[b] $x^2 - \square(3x + 8) = (x + 2)(x - 8)$

[c] $x(x - \square) - 10 = (x + 2)(x - 5)$

[d] $x^2 - \square(24 - x) = (x + 12)(x - 8)$

[e] $x^2 - 5(\square x + 10) = (x - 5)(x - 10)$

[f] $x^2 + 4(x - 3) = (x + 6)(x - \square)$

[g] $x(x + 9) - 70 = (x \square)(x \square)$