

**AQA, OCR, Edexcel**

**GCSE**

# GCSE Maths

## Factorising Quadratics Answers

Name:

**M**

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Mathsmadeeasy.co.uk

Total Marks: /64

## Factorising quadratics

1. Factorise the following quadratic expressions:

a.  $x^2 + 3x - 4$ ,

b.  $x^2 + x - 12$

c.  $x^2 - 5x + 4$

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

e.  $x^2 + 2x - 3$

f.  $x^2 + x - 2$

g.  $x^2 + 5x + 6$

h.  $x^2 - 8x + 15$

i.  $x^2 - x - 20$

j.  $x^2 + 7x + 10$

k.  $x^2 - 9x + 20$

l.  $x^2 + 7x + 12$

m.  $x^2 - 7x + 10$

n.  $x^2 - 2x - 3$

o.  $x^2 + 8x + 15$

p.  $x^2 + 3x - 54$

a.  $(x + 4)(x - 1)$

b.  $(x + 4)(x - 3)$

c.  $(x - 4)(x - 1)$

d.  $(x + 4)(x - 1)$

e.  $(x + 3)(x - 1)$

f.  $(x + 2)(x - 1)$

g.  $(x + 3)(x + 2)$

h.  $(x - 5)(x - 3)$

i.  $(x - 5)(x + 4)$

j.  $(x + 5)(x + 2)$

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

l.  $(x + 4)(x + 3)$

m.  $(x - 5)(x - 2)$

n.  $(x - 3)(x + 1)$

o.  $(x + 5)(x + 3)$

p.  $(x + 9)(x - 6)$

(32 Marks)

2. Factorise the following quadratic expressions:

a.  $2x^2 + 7x + 3$

b.  $2x^2 + 10x + 8$

c.  $2x^2 - 5x + 2$

d.  $2x^2 - 12x + 10$

e.  $3x^2 - 9x + 6$

f.  $2x^2 + 8x + 6$

g.  $2x^2 + 16x + 14$

h.  $2x^2 + 14x + 20$

i.  $3x^2 - 7x + 2$

j.  $3x^2 + 23x + 14$

k.  $3x^2 + 8x - 3$

l.  $3x^2 - 5x - 2$

m.  $5x^2 + 28x + 15$

n.  $5x^2 + 29x + 36$

o.  $5x^2 + 23x + 12$

p.  $5x^2 + 2x - 3$

a.  $(2x + 1)(x + 3)$

b.  $2(x + 1)(x + 4)$

c.  $(2x - 1)(x - 2)$

d.  $2(x + 7)(x + 1)$

e.  $3(x - 2)(x - 1)$

f.  $2(x + 3)(x + 1)$

g.  $2(x + 3)(x + 2)$

h.  $2(x + 5)(x + 2)$

i.  $(3x - 1)(x + 3)$

j.  $(3x + 2)(x + 7)$

k.  $(3x - 1)(x + 3)$

l.  $(3x + 1)(x + 3)$

m.  $(5x + 3)(x + 5)$

n.  $(5x + 9)(x + 4)$

o.  $(5x + 3)(x + 4)$

p.  $(5x - 3)(x + 1)$

(32 marks)