AQA, OCR, Edexcel

GCSE

GCSE Maths

Solving Quadratics Through Factorising Answers

Name:

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Total Marks: /24

Solving Quadratics through factorising

1. Solve the following quadratics by factorising:

i. $x^2 + x - 2 = 0$

$x = 1, x = -2$

ii. $x^2 + 3x - 4 = 0$

$x = -4, x = 1$

iii. $x^2 + x - 12 = 0$

$x = -4, x = 3$

iv. $x^2 - 6x + 8 = 0$

$x = 4, x = 2$

v. $x^2 - 8x + 15 = 0$

$x = 3, x = 5$

vi. $x^2 - 7x + 10 = 0$

$x = 5, x = 2$

vii. $x^2 - x - 2 = 0$

$x = 2, x = -1$

(14 marks)

2. Solve the following quadratics by factorising:

i. $2x^2 + 7x - 4 = 0$

$x = 0.5\,,\ x = -4$

ii. $4x^2 + 19x + 12 = 0$

$x = -0.75, x = -4$

iii. $3x^2 + 5x + 2 = 0$

$x = -\frac{2}{3}, x = -1$

iv. $2x^2 + 13x + 15 = 0$

$x = -\frac{3}{2}, x = -5$

v. $3x^2 - 13x + 4 = 0$

$x = \frac{1}{3}, x = 4$

(10 Marks)