

AQA, OCR, Edexcel

GCSE

GCSE Maths

The Quadratic Formula Questions

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Total Marks: /33

The Quadratic formula

1. Solve the following equations using the quadratic formula:

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

b. $x^2 + 3x = 4$

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

d. $2x^2 + 2x - 3 = 6$

e. $x^2 = 5x - 6$

f. $\frac{(x^2+x)}{2} = 1$

g. $x^2 = 2(4x - 8)$

h. $x(x + 5) = 16$

i. $\frac{x(x+1)}{2} = 3$

(18 Marks)

2. Solve using the quadratic formula:

a. $5x^2 + 2x - 13 = 0$

b. $5x^2 + 29x + 26 = 0$

c. $5x^2 + 28x + 15 = 0$

d. $2x(x + 4) = -3$

e. $2x = \sqrt{3x + 34}$

f. $\frac{x-3}{x} + \frac{2x-3}{2} = 3$

(15 Marks)