

Solving Quadratic Equations

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Easy (5 questions)	/10
Medium (5 questions)	/14
Hard (6 questions)	/17
Total Marks	/41

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Easy Questions

1 Solve $x^2 = 9$

(2 marks)

2 Solve $16 - x^2 = 0$

(2 marks)

3 Solve $3x^2 = 75$

(2 marks)

4 Solve $x^2 + 5x = 0$

(2 marks)

5 Solve $4a - a^2 = 0$

(2 marks)

Medium Questions

1 Solve $x^2 + 10x + 16 = 0$

(3 marks)

2 Solve $x^2 - 16x + 64 = 0$

(2 marks)

3 Solve $x^2 - 36 = 0$

(3 marks)

4 Solve $x^2 - x - 12 = 0$

(3 marks)

5 Solve by factorising $x^2 + 9x + 20 = 0$

$x = \dots\dots\dots$ or $x = \dots\dots\dots$

(3 marks)

Hard Questions

1 Solve $x^2 - 5x - 24 = 0$

(3 marks)

2 Solve $x^2 + 4x - 45 = 0$

(3 marks)

3 Solve $0 = x^2 - 81$

(3 marks)

4 The **only** solution to $x^2 + bx + c = 0$ is $x = 5$

Work out the values of b and c .

$b = \dots\dots\dots$

$c = \dots\dots\dots$

(2 marks)

5 Solve $x^2 - 21x + 20 = 0$

Show your working clearly.

(3 marks)

6 (a) Factorise $x^2 + 2x - 24$

(2 marks)

(b) Hence solve $x^2 + 2x - 24 = 0$

[1]

(1 mark)