

GCSE Edexcel Math 1MA1 Quadratic Formula

Question Paper

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Solve $3x^2 - 4x - 2 = 0$ Give your solutions correct to 3 significant figures.

[3 marks]

Question 2

Solve the equation $3x^2 + 4x - 12 = 0$

Give your solutions correct to 2 decimal places.

[3 marks]

Question 3

Solve $3x^2 - x - 1 = 0$ Give your solutions correct to 2 decimal places.

[3 marks]



Solve $x^2 - 5x + 3 = 0$

Give your solutions correct to 3 significant figures.

[3 marks]

Question 5

Solve $3x^2 + 2x - 7 = 0$ Give your solutions correct to 3 significant figures. Show your working clearly.

[3 marks]

Question 6

Solve $3x^2 - 5x - 1 = 0$ Give your solutions correct to 3 significant figures.

[3 marks]

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Solve $3x^2 + 6x - 2 = 0$ Give your solutions correct to 2 decimal places.

[3 marks]

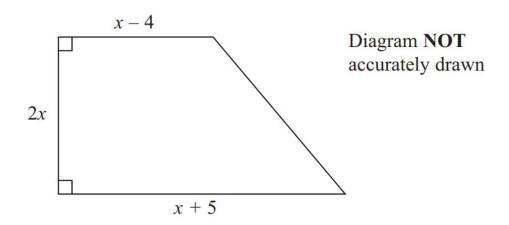
Question 8

Solve $2x^2 + 3x - 7 = 0$ Give your solutions correct to 2 decimal places.

[3 marks]



The diagram shows a trapezium.



All the measurements are in centimetres.

The area of the trapezium is 351 cm².

(a) Show that
$$2x^2 + x - 351 = 0$$

[2 marks]

Question 10

Alison is using the quadratic formula to solve a quadratic equation. She substitutes values into the formula and correctly gets

$$x = \frac{-7 \pm \sqrt{49 - 32}}{4}$$

Work out the quadratic equation that Alison is solving. Give your answer in the form $ax^2 + bx + c = 0$, where a, b and c are integers.

[3 marks]



(b) Solve
$$\frac{2}{v^2} + \frac{9}{v} - 7 = 0$$

Give your solutions correct to 3 significant figures.

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Question 12

(b) Solve $x^2 + 90x - 1200 = 0$ Find the value of x correct to 3 significant figures.

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Question 13

(b) Solve $4x^2 + 9x - 47 = 0$

Show your working clearly. Give your solutions correct to 3 significant figures.

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(b) Work out the value of *x*.

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Question 15

(a) Solve $2x^2 + 9x - 7 = 0$

Give your solutions correct to 3 significant figures.

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