



SCAN ME

# Quadratic Inequalities



SCAN ME

← REVISE THIS TOPIC

→ CHECK YOUR ANSWERS

1 Solve  $x^2 + 7x + 10 < 0$  [2 marks]

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Answer \_\_\_\_\_

2 Solve  $x^2 - 9x + 20 > 0$  [2 marks]

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Answer \_\_\_\_\_

3 Solve  $x^2 + 2x - 15 < 0$  [2 marks]

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Answer \_\_\_\_\_





4 Solve  $x^2 + x - 12 > 0$

[2 marks]

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Answer \_\_\_\_\_

5 Solve  $x^2 - 2x - 24 \leq 0$

[2 marks]

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Answer \_\_\_\_\_

6 Solve  $x^2 - 17x + 30 \geq 0$

[2 marks]

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Answer \_\_\_\_\_

7 Solve  $x^2 - 25 \leq 0$

[2 marks]

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Answer \_\_\_\_\_





8 Solve  $2x^2 - 7x - 15 > 0$  [3 marks]

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Answer \_\_\_\_\_

9 Solve  $3x^2 + 17x - 6 \leq 0$  [3 marks]

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Answer \_\_\_\_\_

10 Solve  $5x^2 - 13x + 6 \geq 0$  [3 marks]

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Answer \_\_\_\_\_

11 Solve  $2x^2 + 15x + 24 < 3 - 2x$  [4 marks]

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Answer \_\_\_\_\_

Turn over ►





12 (a) Solve  $x^2 - 2x - 8 < 0$

[2 marks]

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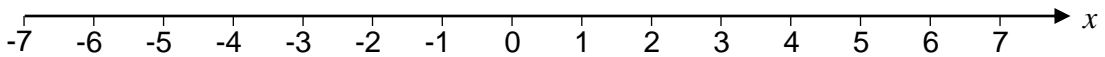
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Answer \_\_\_\_\_

12 (b) Show the solution  $x^2 - 2x - 8 < 0$  on the number line below.

[1 mark]



13 (a) Solve  $x^2 - 7x + 10 \leq 0$

[2 marks]

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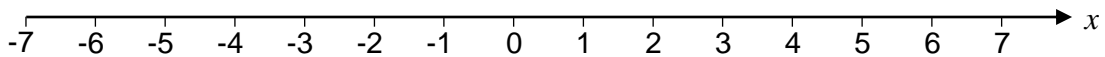
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Answer \_\_\_\_\_

13 (b) Show the solution  $x^2 - 7x + 10 \leq 0$  on the number line below.

[1 mark]





14 Find a set of possible values of  $x$  for which

[4 marks]

$$4x - 5 < 19 \quad \text{and} \quad x^2 - 8x - 20 < 0$$

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Answer \_\_\_\_\_

15 Find a set of possible values of  $x$  for which

[4 marks]

$$6x + 1 > 16 \quad \text{and} \quad x^2 - 8x + 12 < 0$$

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Answer \_\_\_\_\_

Turn over ►





16 Find a set of possible values of  $x$  for which [5 marks]

$$x^2 - 11x + 10 < 0 \quad \text{and} \quad 2x^2 + 3x - 20 < 0$$

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Answer \_\_\_\_\_

17 Find a set of possible values of  $x$  for which [5 marks]

$$x^2 - 9 \geq 0 \quad \text{and} \quad 2x^2 - 13x + 15 < 0$$

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Answer \_\_\_\_\_

