Quadratic Inequalities

SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

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

Answer _____

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

Answer _____

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

Answer _____

$\frac{\quad}{8}$

4 Solve $x^2 + x - 12 > 0$ **[2 marks]**

Answer _____

5 Solve $x^2 - 2x - 24 \leq 0$ **[2 marks]**

Answer _____

6 Solve $x^2 - 17x + 30 \geq 0$ **[2 marks]**

Answer _____

7 Solve $x^2 - 25 \leq 0$ **[2 marks]**

Answer _____

Solutions

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

Answer _____

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

Answer _____

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

Answer _____

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

Answer _____

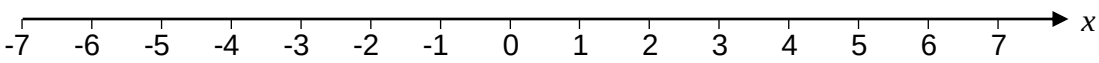
21

Solutions

12 (a) Solve $x^2 - 2x - 8 < 0$ **[2 marks]**

Answer _____

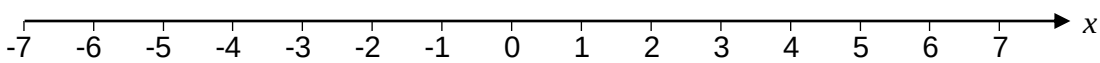
12 (b) Show the solution $x^2 - 2x - 8 < 0$ on the number line below. **[1 mark]**



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

Answer _____

13 (b) Show the solution $x^2 - 7x + 10 \leq 0$ on the number line below. **[1 mark]**



Solutions

14 Find a set of possible values of x for which **[4 marks]**

$4x - 5 < 19$ and $x^2 - 8x - 20 < 0$

Answer _____

15 Find a set of possible values of x for which **[4 marks]**

$6x + 1 > 16$ and $x^2 - 8x + 12 < 0$

Answer _____

14

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

$x^2 - 11x + 10 < 0$ and $2x^2 + 3x - 20 < 0$

Answer _____

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

$x^2 - 9 \geq 0$ and $2x^2 - 13x + 15 < 0$

Answer _____

10

Solutions