1   Solve $x^2 + 7x + 10 < 0$

(Total for Question 1 is 2 marks)

2   Solve $x^2 - 9x + 20 > 0$

(Total for Question 2 is 2 marks)

3   Solve $x^2 + 2x - 15 < 0$

(Total for Question 3 is 2 marks)

1

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

....

(Total for Question 4 is 2 marks)

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

....

(Total for Question 5 is 2 marks)

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

....

(Total for Question 6 is 2 marks)

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

....

(Total for Question 7 is 2 marks)

8 Solve $2x^2 - 7x - 15 > 0$

....

(Total for Question 8 is 3 marks)

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

....

(Total for Question 9 is 3 marks)

10 Solve $5x^2 - 13x + 6 \geq 0$

....

(Total for Question 10 is 3 marks)

11 Solve $2x^2 + 15x + 24 < 3 - 2x$

....

(Total for Question 11 is 4 marks)

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

....

(2)

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

-7   -6   -5   -4   -3   -2   -1   0   1   2   3   4   5   6   7 x

(1)
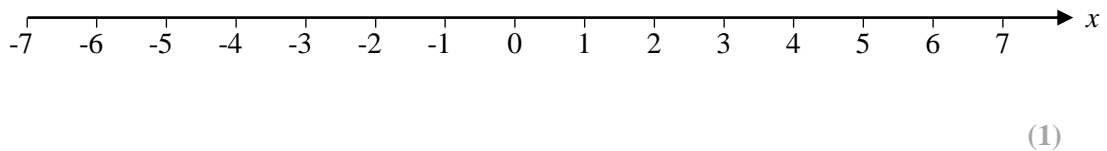
(Total for Question 12 is 3 marks)

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

....

(2)

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

-7   -6   -5   -4   -3   -2   -1   0   1   2   3   4   5   6   7 x

(1)
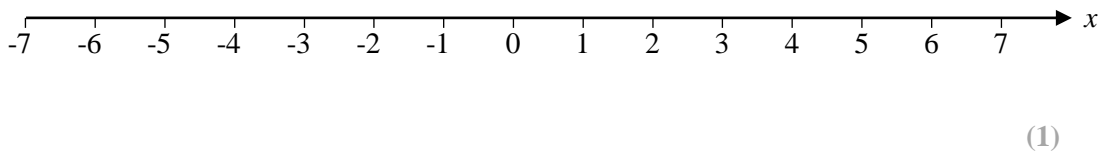
(Total for Question 13 is 3 marks)

14 Find a set of possible values of x for which

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

....

(Total for Question 14 is 4 marks)

15 Find a set of possible values of x for which

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

....

(Total for Question 15 is 4 marks)

16 Find a set of possible values of x for which

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

....

(Total for Question 16 is 5 marks)

17 Find a set of possible values of x for which

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

....

(Total for Question 17 is 5 marks)