

- 5 (a) Solve the inequality $5(x + 1) < x$
Show clear algebraic working.

(2)

- (b) Solve the simultaneous equations

$$3x^2 + y^2 - 7 = 0$$

$$y - 3x - 5 = 0$$

Show clear algebraic working.

(5)

- (c) Hence find the value of x for which

$$5(x + 1) < x \quad \text{and} \quad 3x^2 + y^2 - 7 = 0 \quad \text{and} \quad y - 3x - 5 = 0$$

(1)

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Question 5 continued

Handwriting practice area with horizontal dotted lines.

(Total for Question 5 is 8 marks)

