5.7 Expanding and Factorising Quadratics: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Expand and simplify $2(2x - 5)$.

(Total for Question 1 is 1 mark)

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2 Expand and simplify each expression.

(a) Expand and simplify $3(x + 4) + 2(x + 1)$ **(2)**

(b) Expand and simplify $6(x - 2) - 3(x - 5)$ **(2)**

(Total for Question 2 is 4 marks)

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3 Factorise fully: $2x^2 + 6x$.

(Total for Question 3 is 2 marks)

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4 Show that $(x + 4)(x - 6) + 5 = x^2 - 2x - 19$

(Total for Question 4 is 2 marks)

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Mark scheme · 5.7 Expanding and Factorising Quadratics: 10-minute Pack

Question 1

4x - 10 cao	**B1**

Answer: 4x - 10.

Question 2

(a) correct expansion of at least one bracket, 3x + 12 or 2x + 2	**M1**
(a) 5x + 14 cao	**A1**

(a) Answer: 5x + 14

(b) correct expansion of at least one bracket, 6x - 12 or -3x + 15	**M1**
(b) 3x + 3 cao	**A1**

(b) Answer: 3x + 3

Question 3

factor out common factor 2x	**M1**
2x(x + 3) cao	**A1**

Answer: 2x(x + 3).

Question 4

expands (x + 4)(x - 6) correctly, e.g. x^2 - 6x + 4x - 24 = x^2 - 2x - 24	**M1**
adds 5 to reach x^2 - 2x - 19, matching the given expression (cso)	**A1**

Answer: x^2 - 2x - 19 (shown)

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