3.14 Solving Equations: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve the equation. Show your method.

$6 = 3x + 9$

(Total for Question 1 is 3 marks)

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2 Solve $5x - 7 = 3x + 9$.

(Total for Question 2 is 2 marks)

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3 Solve the equation $(2x + 3)/4 = x - 1$.

(Total for Question 3 is 4 marks)

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Mark scheme · 3.14 Solving Equations: 10-minute Pack

Question 1

subtract 9 from both sides: 3x = -3	**M1**
divide both sides by 3 shown	**M1**
x = -1 cao	**A1**

Answer: -1 (x = -1).

Question 2

collect like terms, e.g. 5x - 3x = 9 + 7 or equivalent method	**M1**
x = 8 cao	**A1**

Answer: 8

Question 3

multiply both sides by 4 or equivalent method, 2x + 3 = 4x - 4	**M1**
collect like terms, 3 + 4 = 4x - 2x	**M1**
x = 7/2 cao	**A1**
allow either fraction or decimal form 7/2 or 3.5	**B1**

Answer: 7/2 or 3.5

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