HIGHER

7.5 Factorising Harder Quadratics: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Solve $x^2 = 8x - 15$

(Total for Question 1 is 3 marks)

2 Factorise fully $6x^2 - 24$

(Total for Question 2 is 2 marks)

3 Factorise fully $8x^2 - 8$

(Total for Question 3 is 3 marks)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 7.5 Factorising Harder Quadratics: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

rearranges to $x^2 - 8x + 15 = 0$	**M1**
$(x - 3)(x - 5) = 0$ seen, or ft their rearrangement	**M1**
$x = 3$ and $x = 5$ oe, both values required	**A1**

Answer: x = 3 or x = 5

Question 2

takes out common factor of 6: $6(x^2 - 4)$	**M1**
$6(x - 2)(x + 2)$ cao, fully factorised	**A1**

Answer: 6(x - 2)(x + 2)

Question 3

common factor or difference of two squares identified	**M1**
difference of two squares factorised	**M1**
$8(x - 1)(x + 1)$	**A1**

Answer: 8(x - 1)(x + 1)

© Revision Library | revisionlibrary.co.uk