

# Algebra: Quadratics, Rearranging Formulae and Identities

## Non-Calculator 10 minute test 2

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Answer all questions.

1 (a) Expand  $2y(x - 3y^2)$

[2 marks]

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Answer \_\_\_\_\_

1 (b) Factorise  $8x + 3x^2$

[1 mark]

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Answer \_\_\_\_\_

2 Simplify

[3 marks]

2 (a)  $a^6 \times a^3$

Answer \_\_\_\_\_

2 (b)  $\frac{a^6}{a^3}$

Answer \_\_\_\_\_

2 (c)  $(a^6)^3$

Answer \_\_\_\_\_

3 Factorise  $x^2 + 2x - 15$

[2 marks]

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Answer \_\_\_\_\_

4 Expand  $(y + 4)(y - 3)$

[2 marks]

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Answer \_\_\_\_\_

5 Make  $x$  the subject of  $ax - by = cx - dy$

[3 marks]

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Answer \_\_\_\_\_