ENGLAND GCSE MATHS OCR HIGHER · UNIT 4 · 5 QUESTIONS

Algebra, Graphs — Practice Test

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1 **A passenger aeroplane climbs 900 m for every 3000 m it travels forwards. The gradient of its flight path is**

- **A** $\frac{3}{10}$
- **B** $\frac{9}{40}$
- **C** $\frac{10}{3}$
- **D** $\frac{1}{3}$

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2 **A line is perpendicular to y = 1/4x + 1. The gradient of the perpendicular line is**

- **A** -4
- **B** -1/4
- **C** 4
- **D** $\frac{1}{4}$

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3 **A straight line passes through (2, 5) and (5, 11). Its gradient is**

- **A** 3
- **B** 9
- **C** 2
- **D** $\frac{1}{2}$

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4 **A sunflower grows 6 cm every week. The gradient of its height-time graph is**

A 12

B 6

C 7

D 5

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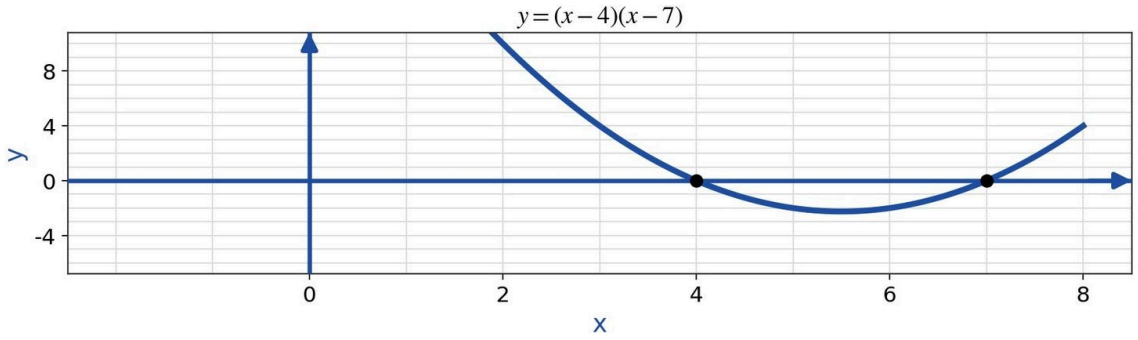
5 **The graph shows y = x² - 11x + 28. The roots of the equation x² - 11x + 28 = 0 are**



A x = 5 and x = 7

B x = 4 and x = -7

C x = 4 and x = 7

D x = -4 and x = -7

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ANSWER KEY

1. A
2. A
3. C
4. B
5. C

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