

Practice paper 2 (calculator)

Higher tier

Time: 1 hour 30 minutes

The maximum mark for this paper is 80.

The marks for questions are shown in brackets.

- 1 Circle the expression that is the same as $2x^2 + \frac{3x^2}{x}$.
- | | |
|-------------|------------|
| $2x^2 + 4x$ | $5x^2 + x$ |
| $3x^2 + 4x$ | $9x$ |

(1 mark)

- 2 Circle the solutions to the equation $(x - 3)(x + 4) = 0$.
- | | |
|-----------------|-----------------|
| $x = 3$ or 4 | $x = 3$ or -4 |
| $x = 3$ or -4 | $x = 0$ |

(1 mark)

- 3 Circle the square root of 10 000.
- | | |
|-----|------|
| 100 | 1000 |
| 500 | 5000 |

(1 mark)

- 4 $a = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$ and $b = \begin{pmatrix} -1 \\ 0 \end{pmatrix}$
- Circle the vector that is equal to $3a - 2b$.
- | | |
|--|--|
| $\begin{pmatrix} 8 \\ 3 \end{pmatrix}$ | $\begin{pmatrix} 4 \\ 3 \end{pmatrix}$ |
| $\begin{pmatrix} 5 \\ 3 \end{pmatrix}$ | $\begin{pmatrix} 0 \\ 3 \end{pmatrix}$ |

(1 mark)

- 5 A house increased in value from £150 000 in 2014 to £170 000 in 2016.
- What percentage increase is this?
- Give your answer to 1 decimal place.

(2 marks)

- 6 Use your calculator to work out $19.85^2 - \sqrt{98.67} \div 4.67$.
- a Write down your full calculator display.

(1 mark)

- b Use approximations to check that the answer to part (a) is sensible.
- You must show your working.

(1 mark)

2014 Higher Maths Paper

**Kevin Evans, Keith Gordon, Brian
Speed, Michael Kent**



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