

Practice paper 2 (calculator)

Higher tier

The maximum mark for this paper is 80.
The marks for questions are shown in brackets.

Time: 1 hour 30 minutes

1 Circle the expression that is the same as $2x^2 + \frac{2x^2}{x} - x$

$2x^2 + 4x$ $5x^2 + x$
 $3x^2 + 4x$ $9x$

(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 10000.

100 1 000
500 5 000

(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 $3a - 2b$

$\begin{pmatrix} 8 \\ 3 \end{pmatrix}$ $\begin{pmatrix} 4 \\ 3 \end{pmatrix}$
 $\begin{pmatrix} 8 \\ 0 \end{pmatrix}$ $\begin{pmatrix} 0 \\ 3 \end{pmatrix}$

(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 $19.85^2 - \sqrt{98.67} \div 4.87$

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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