Summer 2019

Paper 2 - Calculator

Ouestion 16

Revision on Equation of a line



The straight line L has the equation 3y = 4x + 7The point A has coordinates (3, -5)

$$\frac{t}{11} - x \frac{t}{\varepsilon} - = \Lambda$$

Find an equation of the straight line that is perpendicular to L and passes through A.

(Total for Question 16 is 3 marks)

Summer 2018

Paper 1 - Non-Calculator

Question 19

The point P has coordinates (3, 4)

The point Q has coordinates (a, b)

A line perpendicular to PQ is given by the equation 3x + 2y = 7

$$7 + p \frac{\xi}{7} = q$$

Find an expression for b in terms of a.

(Total for Question 19 is 5 marks)



Autumn 2017

Paper 2 - Calculator

Question 19

A triangle has vertices P, Q and R.

The coordinates of P are (-3, -6)

The coordinates of Q are (1, 4)

The coordinates of R are (5, -2)

M is the midpoint of PQ.

N is the midpoint of QR.

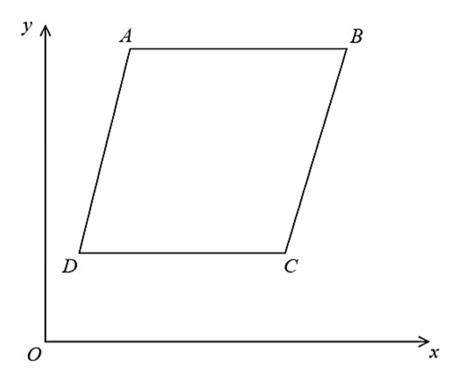
Prove that MN is parallel to PR.

You must show each stage of your working.

(Total for Question 19 is 4 marks)

 \mathbb{Z} Cl for a method to find coordinates of M(-1, -1) or N(3, 1)or for column vectors of MN and PR, \overline{MN} for conclusion from reasoning and correct working for method to find gradient of MN or PRfor gradients of $M\!N$ and $P\!R$, ie $^1\!\!/_2$ oe for differences of x coordinates and of y coordinates for MN and PRfor differences of x coordinates and differences of y coordinates for MN or PR $\binom{4}{2}$ and \overline{PR}





ABCD is a rhombus.

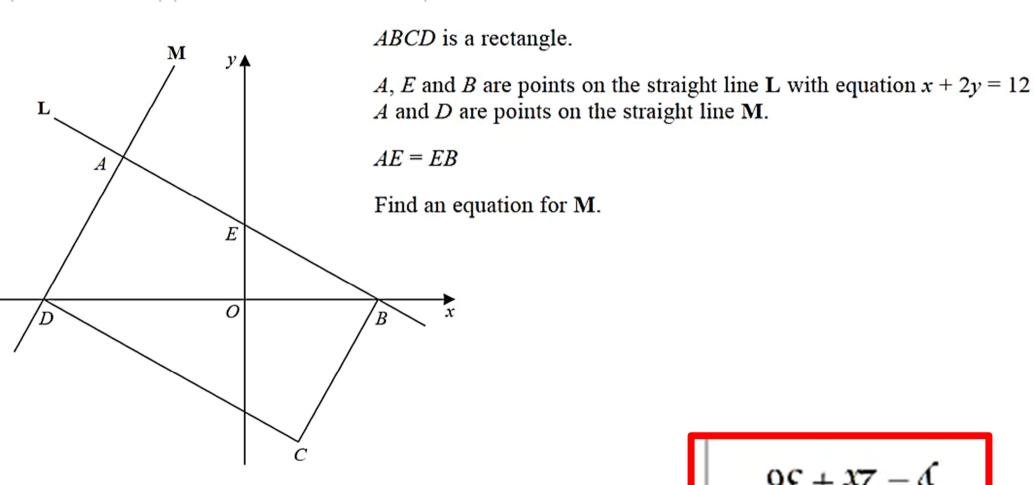
The coordinates of A are (5,11) The equation of the diagonal DB is $y = \frac{1}{2}x + 6$

Find an equation of the diagonal AC.

(Total for Question 18 is 4 marks)

$$17 + x7 - = 4$$





(Total for Question 19 is 4 marks)

$$95 + x7 = 6$$