Coordinate geometry – 2024 O Level Math D 4024

1.	June/2024/Paper_ 4024/11/No.23
	AB is a line segment joining $A(-2, 5)$ and $B(1, 3)$.

(a) B is the midpoint of the line segment AC.

Find the coordinates of C.

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(b) The length AB is \sqrt{t} .

Find the value of t.

$$t =$$
 [2]

(c) Find the equation of the line perpendicular to AB that passes through A. Give your answer in the form y = mx + c.

$$y =$$
.....[4]

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2. June/2024/Paper_ 4024/11/No.11(a, c)

Q is the point (n, -4), R is the point (-1, 8) and S is the point (3, 2).

(a) The length QR is 13 units.

Find the two possible values of n.

 $n = \dots$ or $n = \dots$ [3]

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(c)	Find the equation of the perpendicular bisector of RS.
	[5]