# Coordinate geometry – 2023 O Level Math D 4024

	(i)	Find the gradient of line $L$ .	
			[1]
	(ii)	Find the coordinates of the point where line $L$ crosses the	e y-axis.
			() [1]
(b)	A is	is the point $(4, 5)$ and $B$ is the point $(-2, 8)$ .	
	(i)	Find the length of line AB.	
			[2]
	(a)	(a) The (i) (ii)	<ul> <li>(ii) Find the coordinates of the point where line L crosses the</li> <li>(b) A is the point (4, 5) and B is the point (-2, 8).</li> </ul>

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(ii) Find the equation of line AB. Give your answer in the form y = mx + c.

$$y =$$
 [3]

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2. Nov/2	023/Paper_	4024/22	/No.7	b
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(b) The equation of line P is y = 4x - 3. Line L is perpendicular to line P. Line L passes through the point (6, 4).

Find the coordinates of the point where line L crosses the x-axis.

(.....) [4]

3.		une/2023/Paper_ 4024/11/No.26 4 is the point $(-2, 3)$ and B is the point $(4, 7)$ .						
	(a)	Find the coordinates of the midpoint of $AB$ .						
			() [1]					
	(b)	Line $l$ is the locus of points that are equidistant from $A$ and $B$ .						
		Find the equation of line <i>l</i> .						
			[4]					

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## 4. June/2023/Paper\_ 4024/12/No.24

A is the point (3, 11) and B is the point (-5, -5). The equation of line L is 2y+x=5.

Show that line L is the perpendicular bisector of AB.