

## **QUESTION 1**

Points A and B are plotted on the Cartesian plane as shown below.



## **QUESTION 2**

2.1 In the diagram below, C(3; 3), D(-3; -5) and E(1; k) are three points in the Cartesian plane.



	2.1.4	If $k = -8$ , determine the coordinates of M, the midpoint of CE.	(3)	S1503
	2.1.5	Determine the coordinates of point F such that the quadrilateral CDEF is a	I	
		rectangle.	(4)	S1505
2.2	G is the	2 point $(0, -4)$ . The point H lies in the second quadrant and has coordinates		
	(x; 2)	. If the length of GH is $\sqrt{61}$ units, calculate the value of x.	(4)	S1502
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## **QUESTION 3**

In the diagram below, the coordinates of  $\Delta STU$  are given as S(-2; 4), T(-6; -2) and U(8; 2). X and Y are the midpoints of ST and TU respectively.





Total: 50 Marks