

6	The point A has coordinates $(3, 0)$ and the point B has coordinates $(2, 2)$. The line L_1 passes through B and is perpendicular to AB .	
	(a) Find an equation of L_1	
	Give your answer in the form $ax + by + c = 0$	
		(5)
	The line L_2 with equation $x - 7y - 3 = 0$ intersects the line L_1 at the point C . The midpoint of AC is M .	
	(b) Find the coordinates of M .	
		(5)
	(c) Find the area of the triangle <i>ABM</i> .	(4)
		(4)