6	Three points, A , B and C , are such that B is the mid-point of AC . The coordinates of A are $(2, m)$ at the coordinates of B are $(n, -6)$, where m and n are constants.	and
	(i) Find the coordinates of C in terms of m and n .	[2]
	The line $y = x + 1$ passes through C and is perpendicular to AB .	
	(ii) Find the values of m and n .	[5]