10	In this question you must show detailed reasoning.	
	The points P, Q and R have coordinates $(-3, 7)$ , $(11, 5)$ and $(9, -9)$ respectively.	
	(a) Show that PQ is perpendicular to QR.	[3]
	A circle passes through P, Q and R.	
	(b) Determine the coordinates of the centre of the circle.	[3]