9.	An octopus is able to catch any fish that swim within a distance of 2 m from the octopus's position.	S
	A fish F swims from a point A to a point B .	
	The octopus is modelled as a fixed particle at the origin O.	
	Fish F is modelled as a particle moving in a straight line from A to B .	
	Relative to O , the coordinates of A are $(-3, 1, -7)$ and the coordinates of B are $(9, 4, 11)$, where the unit of distance is metres.	
	(a) Use the model to determine whether or not the octopus is able to catch fish F .	(7)
	(b) Criticise the model in relation to fish F .	(1)
	(c) Criticise the model in relation to the octopus.	(1)