7	take the	and Tom are playing a game which involves a bag containing 5 white discs and 3 red discs. They e turns to remove one disc from the bag at random. Discs that are removed are not replaced into bag. The game ends as soon as one player has removed two red discs from the bag. That player is the game.				
	Sam	removes the first disc.				
	(a)	Find the probability that Tom removes a red disc on his first turn. [2]				

)	Find the probability that Tom wins the game on his second turn.	[4]
		•••
		· • • •
		· • • •
	Find the probability that Sam removes a red disc on his first turn given that Tom wins the gar on his second turn.	ne [2]
		····
		· • • •