16	desearch conducted by social scientists has shown that 16% of young adults smoke cigarettes.	
	wo young adults are selected at random.	
	a) Determine the probability that one smokes cigarettes and the other doesn't. [2]	l
	he same research has also shown that	
	75% of young adults drink alcohol.	
	66% of young adults drink alcohol, but do not smoke cigarettes.	
	b) Determine the probability that a young adult selected at random does smoke cigarettes, but does not drink alcohol. [2]	ļ
	A young adult who drinks alcohol is selected at random. Determine the probability that this young adult smokes cigarettes. [2]	l
	d) Using your answer to part (c), explain whether the event that a young adult selected at random smokes cigarettes is independent of the event that a young adult selected at random drinks alcohol. [2]	l