Over a period of time Julian finds that on long-distance flights he flies economy class on 8 flights. On the rest of the flights he flies first class. When he flies economy class, the probabil he gets a good night's sleep is x. When he flies first class, the probability that he gets a good sleep is 0.9.	ity that
(i) Draw a fully labelled tree diagram to illustrate this situation.	[2]
The probability that Julian gets a good night's sleep on a randomly chosen flight is 0.285.	
The probability that Julian gets a good night's sleep on a randomly chosen flight is 0.285.	[2]
The probability that Julian gets a good night's sleep on a randomly chosen flight is 0.285 . (ii) Find the value of x .	[2]
	[2]
	[2]
	[2]
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	[2]
	[2]
	[2]
	[2]

(iii)	Given that on a particular flight Julian does not get a good night's sleep, find the probability that he is flying economy class. [3]