9	A water tank holds 2000 litres when full. A small hole in the base is gradually getting bigger so th each day a greater amount of water is lost.	at	
	(i) On the first day after filling, 10 litres of water are lost and this increases by 2 litres each day.		
	(a) How many litres will be lost on the 30th day after filling?	2]	
	(b) The tank becomes empty during the n th day after filling. Find the value of n .	3]	
	(ii) Assume instead that 10 litres of water are lost on the first day and that the amount of water lo increases by 10% on each succeeding day. Find what percentage of the original 2000 litres left in the tank at the end of the 30th day after filling.		
[Questions 10 and 11 are printed on the next page.]			