11	In a science experiment a substance is decaying exponentially. Its mass, M grams, at time t minutes is g by $M = 300e^{-0.05t}$.	
	(i) Find the time taken for the mass to decrease to half of its original value.	[3]
	A second substance is also decaying exponentially. Initially its mass was 400 grams and, after 10 minurits mass was 320 grams.	tes,
	(ii) Find the time at which both substances are decaying at the same rate.	[8]