6	In this question you must show detailed reasoning.	
	A particle moves in a straight line. Its velocity $v \mathrm{ms}^{-1}$ after $t \mathrm{s}$ is given by $v = t^3 - 5t^2$.	
	(a) Find the times at which the particle is stationary.	[2]
	(b) Find the total distance travelled by the particle in the first 6 seconds.	[3]