11D Integrating between x, v, a

1.	A particle is moving on the x-axis. At time $t=0$, the particle is at the point where $x=5$. The
	velocity of the particle at time t seconds ($t \ge 0$) is $(6t - t^2) ms^{-1}$. Find:

a) An expression for the displacement of the particle from O at time t seconds

b) The distance of the particle from its starting point when $t=6\,$

