2.	A particle <i>P</i> moves along the positive <i>x</i> -axis.	
	At time t seconds, $t \ge 0$	
	• the distance of P from the origin O is x metres	
	• the velocity of P is $v \text{m s}^{-1}$ in the positive x direction	
	• the acceleration of P is $a \mathrm{ms^{-2}}$	
	Given that $x = 4t^3 - 21t^2 + 36t + 1$	
	(a) find v in terms of t ,	(2)
	(b) find the distance of P from O at the instant when P is at rest for the second time,	(4)
	(c) find a in terms of t .	(2)