4	A particle <i>P</i> is moving along the <i>x</i> -axis. At time <i>t</i> seconds ($t \ge 0$) the velocity, v m/s, of <i>P</i> is given by $v = 4t^2 - 19t + 12$	
	(a) Find the values of t for which P is instantaneously at rest. When $t = 0$, the displacement of P from the origin is -4 m.	(2)
	(b) Find the displacement of P from the origin when $t = 6$	(4)
	At time t seconds the acceleration of P is a m/s ² .	
	(c) Find the value of t when $a = 0$	(3)

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