7	A particle <i>P</i> moves in a straight line so that, at time <i>t</i> seconds ( $t \ge 0$ ), its velocity, $v$ m/s, is given by $v = 3t^2 - 4t + 7$ Find	
	(a) the acceleration of $P$ at time $t = 2$	(2)
	(b) the minimum speed of $P$ .	(3)
	When $t = 0$ , P is at the point A and has velocity $V$ m/s.	
	(c) Write down the value of <i>V</i> .	(1)
	When P reaches the point B, the velocity of P is also $V \text{ m/s}$ .	
	(d) Find the distance <i>AB</i> .	
		(6)

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Question 7 continued			



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	(Total for Question 7 is 12 marks)

