

- 3 A particle P moves in a straight line. At time t seconds, the velocity, v m/s, of P is given by

$$v = t^2 - 4t + 7$$

- (a) Find the acceleration of P , in m/s^2 , when $t = 3$ (2)

- (b) Find the distance, in m, that P travels in the interval $0 \leq t \leq 6$ (4)

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Question 3 continued

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(Total for Question 3 is 6 marks)

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