

- 4 A particle P is moving along a straight line which passes through the point O .
At time $t = 0$ the particle P is at the point O .

At time t seconds the velocity, v m/s, of P is given by $v = 3t^2 + 2t + 5$

- (a) Find the acceleration of P when $t = 2$

(3)

- (b) Find the displacement of P from O when $t = 3$

(3)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 4 continued

Handwriting practice area with 28 horizontal dotted lines.

(Total for Question 4 is 6 marks)

