

A-LEVEL H2 MATHS 2014 – PAPER 2

Question 1

[Ans: (i) 2.5 (ii) $x = \frac{2}{27}y^2$]

$$(i) \quad \frac{dx}{dt} = 6t, \quad \frac{dy}{dt} = 6$$

$$\frac{dy}{dx} = \frac{6}{6t} = \frac{1}{t}$$

$$\text{Let } \frac{dy}{dx} = 0.4$$

$$\frac{1}{t} = 0.4 \Rightarrow t = 2.5$$

$$(ii) \quad \text{At } P, t = p \Rightarrow \frac{dy}{dx} = \frac{1}{p}$$

Equation of tangent at P :

$$y - 6p = \frac{1}{p}(x - 3p^2)$$

$$y = \frac{1}{p}x + 3p$$

$$\therefore D(0, 3p)$$

Midpoint of PD

$$= \left(\frac{3p^2}{2}, \frac{6p + 3p}{2} \right) = \left(\frac{3p^2}{2}, \frac{9p}{2} \right)$$

$$\therefore x = \frac{3}{2}p^2, \quad y = \frac{9}{2}p \Rightarrow p = \frac{2}{9}y$$

Cartesian equation of locus of midpoint:

$$x = \frac{3}{2} \left(\frac{2y}{9} \right)^2 \Rightarrow x = \frac{2}{27}y^2$$

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PT Brinkman



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