

2012 JC2 H2 Math Mid-year Paper 2 solutions

1 Area of the triangle $OAB = \frac{1}{2} |\mathbf{a}| |\mathbf{b}| \sin \theta = \frac{1}{2} |\mathbf{a} \times \mathbf{b}|$. $k = \frac{1}{2}$

$$\overrightarrow{OP} = 3\mathbf{a} \quad \overrightarrow{OQ} = \frac{2}{5}\mathbf{b}$$

$$\overrightarrow{OM} = \frac{1}{2} (\overrightarrow{OP} + \overrightarrow{OQ}) = \frac{1}{2} \left(3\mathbf{a} + \frac{2}{5}\mathbf{b} \right)$$

$$\begin{aligned} \text{Area of triangle } OMQ &= \frac{1}{2} |\overrightarrow{OM} \times \overrightarrow{OQ}| = \frac{1}{2} \left| \frac{1}{2} \left(3\mathbf{a} + \frac{2}{5}\mathbf{b} \right) \times \frac{2}{5}\mathbf{b} \right| \\ &= \frac{3}{10} |\mathbf{a} \times \mathbf{b}| \end{aligned}$$

$$\text{Area of triangle } OMQ : \text{Area of triangle } OAB = \frac{3}{10} : \frac{1}{2} = 3 : 5$$

2 (i) $\frac{dy}{dx} = \frac{-\sin \theta}{2 \cos \theta} = -\frac{1}{2} \tan \theta$

(ii) Equation of tangent is

$$\begin{aligned} \frac{y - (1 + \cos \theta)}{x - 2(1 + \sin \theta)} &= -\frac{1}{2} \tan \theta \quad y = -\left(\frac{1}{2} \tan \theta \right) x + \tan \theta + \tan \theta \sin \theta + 1 + \cos \theta \\ &= -\left(\frac{1}{2} \tan \theta \right) x + 1 + \tan \theta + \cos \theta + \frac{\sin^2 \theta}{\cos \theta} \\ &= -\left(\frac{1}{2} \tan \theta \right) x + 1 + \tan \theta + \frac{\cos^2 \theta + \sin^2 \theta}{\cos \theta} \\ &= -\left(\frac{1}{2} \tan \theta \right) x + 1 + \tan \theta + \sec \theta \end{aligned}$$

(iii) Substitute $x = 2$, $y = -1$ into the equation of the tangent above, we have

$$-\tan \theta + 1 + \tan \theta + \sec \theta = -1$$

$$\sec \theta = -2 \Rightarrow \cos \theta = -\frac{1}{2} \Rightarrow \theta = \pm \frac{2\pi}{3}.$$

Since there are two possible values of θ , there are two tangents passing through $(2, -1)$

(iv) The gradients of the tangents are given by

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