

FP1 – Conics Questions

[June 2013] 4.

The rectangular hyperbola H has Cartesian equation $xy = 4$.

The point $P\left(2t, \frac{2}{t}\right)$ lies on H , where $t \neq 0$.

(a) Show that an equation of the normal to H at the point P is

$$ty - t^3x = 2 - 2t^4 \quad (5)$$

The normal to H at the point where $t = -\frac{1}{2}$ meets H again at the point Q .

(b) Find the coordinates of the point Q .

(4)

[June 2013] 6.

A parabola C has equation $y^2 = 4ax$, $a > 0$

The points $P(ap^2, 2ap)$ and $Q(aq^2, 2aq)$ lie on C , where $p \neq 0$, $q \neq 0$, $p \neq q$.

(a) Show that an equation of the tangent to the parabola at P is

$$py - x = ap^2 \quad (4)$$

(b) Write down the equation of the tangent at Q .

(1)

The tangent at P meets the tangent at Q at the point R .

(c) Find, in terms of p and q , the coordinates of R , giving your answers in their simplest form.

(4)

Given that R lies on the directrix of C ,

(d) find the value of pq .

(2)

June 2013 Fp1 Past Paper

J Elliott



June 2013 Fp1 Past Paper:

June 2013 Fp1 Past Paper Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**June 2013 Fp1 Past Paper**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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