

## 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

**F Rizvi**



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