8 The equation of a curve is $y = 5 - \frac{8}{x}$.

(i) Show that the equation of the normal to the curve at the point P(2, 1) is 2y + x = 4. [4]

This normal meets the curve again at the point Q.

- (ii) Find the coordinates of Q. [3]
- (iii) Find the length of PQ. [2]