- 11 The point P(3, 5) lies on the curve $y = \frac{1}{x-1} \frac{9}{x-5}$.
 - (i) Find the x-coordinate of the point where the normal to the curve at P intersects the x-axis. [5]
 - (ii) Find the *x*-coordinate of each of the stationary points on the curve and determine the nature of each stationary point, justifying your answers. [6]