- 9 A curve is such that $\frac{dy}{dx} = \frac{12}{(2x+1)^2}$ and P(1, 5) is a point on the curve.
 - (i) The normal to the curve at P crosses the x-axis at Q. Find the coordinates of Q. [4]
 - (ii) Find the equation of the curve. [4]
 - (iii) A point is moving along the curve in such a way that the x-coordinate is increasing at a constant rate of 0.3 units per second. Find the rate of increase of the y-coordinate when x = 1. [3]