

The diagram shows part of the curve with equation $y = x + \frac{2}{(2x-1)^2}$. The lines x = 1 and x = 2 intersect the curve at P and Q respectively and R is the stationary point on the curve.

Verify that the x-coordinate of R is $\frac{9}{2}$ and find the y-coordinate of R.	[4]
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(b)	Find the exact value of the area of the shaded region.	[6]