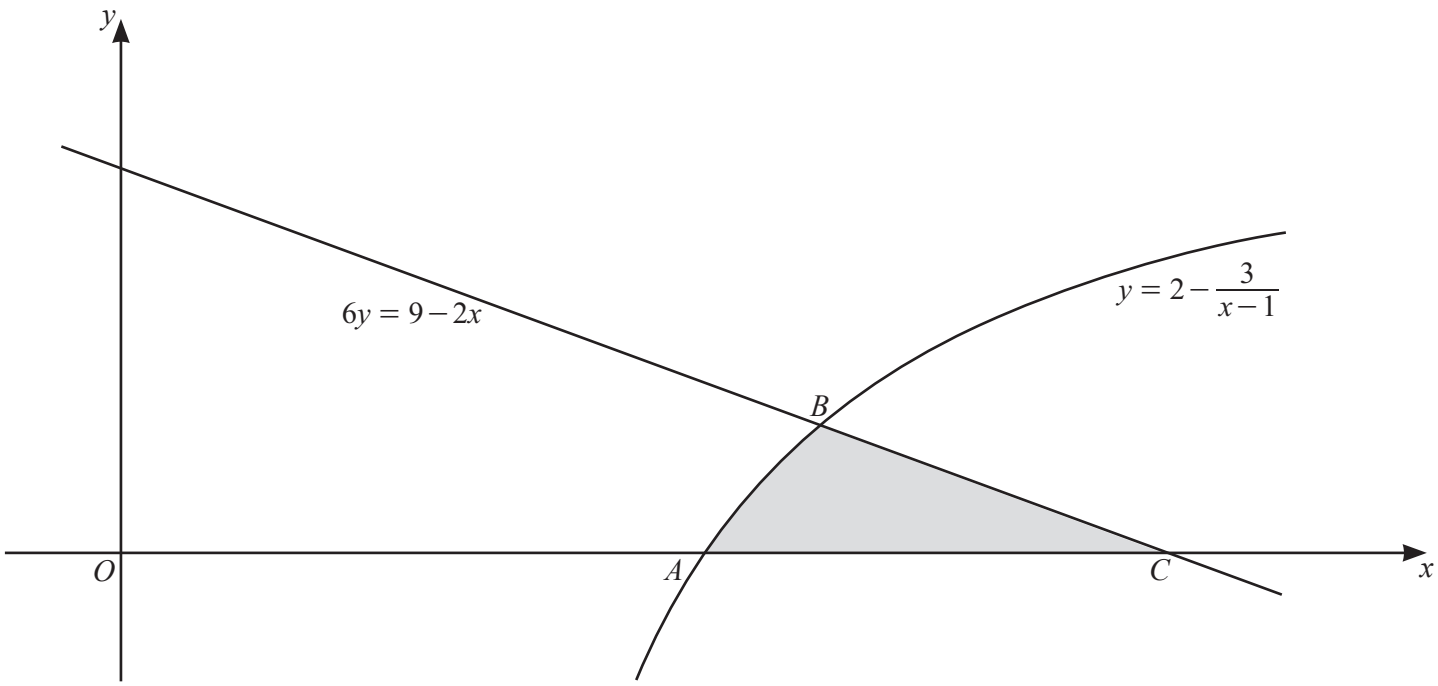
8



The diagram shows part of the curve $y = 2 - \frac{3}{x-1}$ and the straight line $6y = 9 - 2x$. The curve intersects the x-axis at point A and the line at point B. The line intersects the x-axis at point C. Find the area of the shaded region ABC, giving your answer in the form $p + \ln q$, where p and q are rational numbers. [11]

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Additional working space for Question 8.