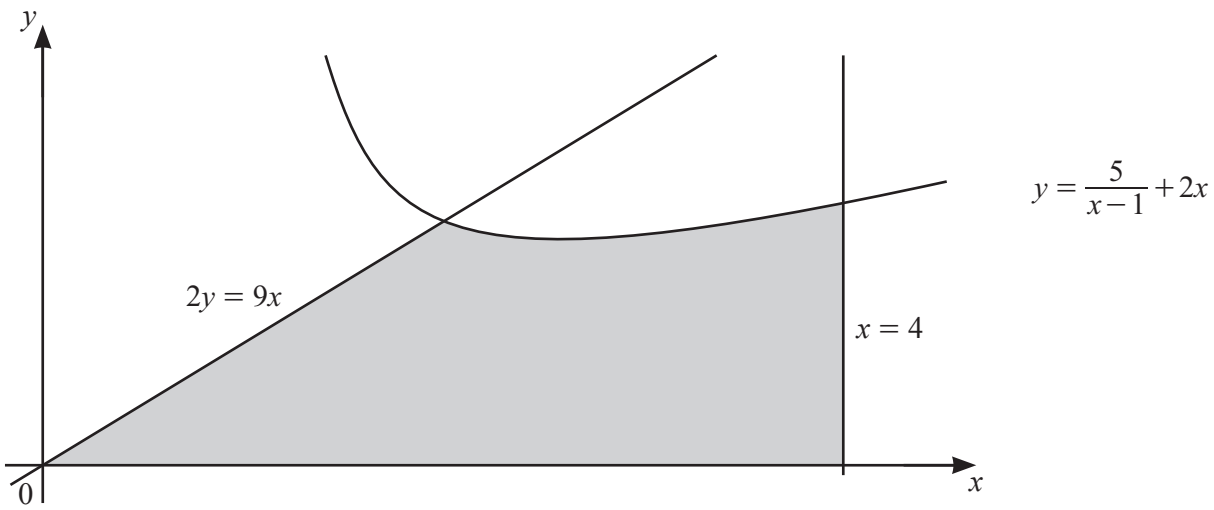
8



The diagram shows part of the curve $y = \frac{5}{x-1} + 2x$, and the straight lines $x = 4$ and $2y = 9x$.

(a) Find the coordinates of the stationary point on the curve $y = \frac{5}{x-1} + 2x$. [5]

(b) Given that the curve and the line $2y = 9x$ intersect at the point (2, 9), find the area of the shaded region. [5]