6 Find $\int_2^4 \left(\frac{2}{2x-3} - \frac{3}{(3x-5)^2} \right) \mathrm{d}x$, giving your answer in exact form. [4]

7 Given that $2 + \cot\theta = 3x$ and $\sin\theta = \sqrt{y}$, find y in terms of x. [3]

© UCLES 2024