4 Variables x and y are such that $y = \frac{\sin x}{\cos x}$. Using differentiation, find the approximate change in y as x increases from $-\frac{\pi}{4}$ to $h - \frac{\pi}{4}$, where h is small. [4]

5 **(a)** Solve the inequality $2x^2 - 17x + 21 \leqslant 0$. [3]

(b) Hence find the area enclosed between the curve $y = 2x^2 - 17x + 21$ and the x-axis. [3]

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