5 DO NOT USE A CALCULATOR IN THIS QUESTION.

(a) Find the equation of the tangent to the curve $y = x^3 - 6x^2 + 3x + 10$ at the point where $x = 1$. [4]

(b) Find the coordinates of the point where this tangent meets the curve again. [5]

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6 Find the exact value of $\int_2^4 \frac{(x+1)^2}{x^2}\,\mathrm{d}x$. [6]