$$= \int \frac{(2x^2 + 3x + 1) \cdot (x + 2) + 1}{x + 2} dx$$

$$= \int \frac{(2x^2 + 3x + 1) \cdot (x + 2)}{x + 2} + \frac{1}{x + 2} dx$$

 $=\int 2x^2 + 3x + 1 + \frac{1}{x+2} dx$

 $\int \frac{2 \times^3 + 7 \times^2 + 7 \times + 3}{\times + 2} \, d\chi$