

2.48
4

$$f = \int f'(x) dx = \int \frac{x+2}{x+3} dx = \int \left(1 - \frac{1}{x+3}\right) dx = x - \ln|x+3| + C$$

$$f(-4) = 3 \rightarrow \left. \begin{array}{l} 3 = -4 - \ln|1| + C \\ C = 7 + \ln|1| \end{array} \right\} f(x) = x - \ln|x+3| + 7$$