

3 **(a)** Express $\frac{1}{(x+2)(x+3)}$ in partial fractions. **[3]**

(b) Find $\int \frac{1}{(x+2)(x+3)} dx$ in the form $\ln(f(x)) + c$, where c is the constant of integration and $f(x)$ is a function to be determined. **[3]**