

S of S

6/5/2021

2001090

ACHA4006

calum campbell

further maths

6)

v)

$$\int_2^3 x(x+1) + e^x dx$$

$$x^2 + x + e^x \text{ ~~dx~~ ~~dx~~ }$$

$$\left[\frac{x^2}{2} + x + e^x \right]$$

$$\left[\frac{3^2}{2} + 3 + \frac{1}{1}e^3 \right] - \left[\frac{2^2}{2} + 2 + \frac{1}{1}e^2 \right]$$

$$\left[7.5 + 3 + \frac{1}{1}e^3 \right] - \left[2 + 2 + \frac{1}{1}e^2 \right]$$

$$\left[10.5 + \frac{1}{1}e^3 \right] - \left[4 + \frac{1}{1}e^2 \right]$$

$$= 5.5 + e$$