

$$\frac{du}{dx} = 1$$

$$= 67.3 - 6 = 61.3$$

$$\frac{du}{dx} = dx$$

$$\int_2^3 x u + e^x \frac{du}{dx}$$

$$\frac{1}{1} \int_2^3 x u + e^x du$$

$$u = x + 1$$

$$u - 1 = x$$

$$\frac{1}{1} \int_2^3 (u-1)u + e^x du$$

$$\frac{1}{1} \int_2^3 u + e du$$

$$\frac{1}{1} \int_2^3 (x+1)e$$