

2aii) $\int_0^4 e^{\frac{1}{2}x} dx$

~~$= \left[2e^{\frac{1}{2}x} \right]_0^4$~~
 ~~$= \left(2e^{\frac{1}{2}(4)} \right) - \left(2e^{\frac{1}{2}(0)} \right)$~~
 ~~$= 3.695$~~

$$\frac{1}{\frac{1}{2}} = \frac{2(1)}{1} = 2 \quad \frac{1}{2} dx = \frac{dx}{2}$$

$$= \left[2e^{\frac{x}{2}} \right]_0^4$$

$$= \left(2e^{\left(\frac{4}{2}\right)} \right) - \left(2e^{\left(\frac{0}{2}\right)} \right)$$

$$= 12.78$$

iii)