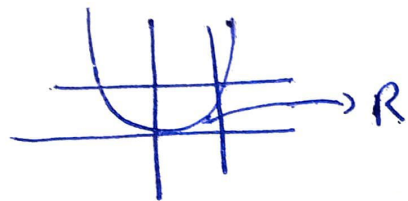


$$\int_1^m \int_0^1 \int_{\sqrt{y}}^1 e^{x^3} dx dy dz$$

$$\begin{array}{l|l} x = \sqrt{y} & y=0 \\ x=1 & y=1 \end{array}$$



$$\int_1^m \int_{x=0}^1 \int_{y=0}^{x^2} e^{x^3} dy dx dz$$

$$\Rightarrow \int_1^m \int_{x=0}^1 x^2 e^{x^3} dx dz$$

$$\Rightarrow \int_1^m \int_{x=0}^1 \frac{x^2 e^{x^3}}{3x^2} dx dz$$

$$\Rightarrow \frac{1}{3} \int_1^m [e^{x^3}]_0^1 dz$$

$$\Rightarrow \frac{1}{3} \times (m-1) \times (e^1 - 1) = (e-1)$$

$$\Rightarrow m-1=3 \Rightarrow \boxed{m=4}$$