

Choose the correct answer

$$\int_0^4 \frac{e^{\sqrt{x}}}{\sqrt{x}} dx \text{ and } u = \sqrt{x} \text{ then}$$

a)  $\frac{1}{2} \int_0^2 e^u du$     b)  $2 \int_0^4 e^u du$     c)  $2 \int_0^2 e^u du$

d)  $\frac{1}{2} \int_0^4 e^{2u} du$     e)  $2 \int_0^2 e^{2u} du$

$$1. \int \frac{6}{(1-2x)^3} dx$$

$$2. \int x^3 e^{x^4} dx$$

$$3. \int \frac{x^3 dx}{x^4 + 1}$$

$$4. \int x \sqrt{7x^2 + 12} dx$$

$$5. \int \frac{e^x dx}{1 + e^{2x}}$$

$$6. \int \frac{e^x dx}{1 + e^x}$$