26/4/2021

$$\int_{1}^{e^2} \frac{\ln x}{\sqrt{x}} dx =$$

$$\sqrt{x} = t$$

$$= \int \frac{\ln t^2}{t} = 2t dt =$$

$$dx = 2t dt$$

$$= 2 \int \ln t^2 dt = 4 \int \ln t dt =$$

$$= 4 \left\{ 1 \cdot lut \cdot olt = 4 \left[t \cdot lut \right]_{1}^{2} - \left[t \cdot t \cdot dt \right] = 1 \cdot \left[t \cdot dt \right]_{2}^{2}$$

$$= 4 \left\{ 1 \cdot lut \cdot olt = 4 \left[t \cdot lut \right]_{1}^{2} - \left[t \cdot dt \cdot dt \right] = 1 \cdot \left[t \cdot dt \cdot dt \right]_{2}^{2}$$

$$=4\left[alue-\int_{1}^{2}dt\right]=4\left[a-(e-1)\right]=4\left[a-e+1\right]=4$$

$$A = \int \sin x \, dx = \int (-\cos x)' \, dx =$$

$$= [-\cos \times]_0^{\pi} = -\cos \pi - (-\cos 0) =$$

