$$1 \mid \int_{1}^{2} \frac{e^{\frac{1}{x}}}{x^{2}} dx$$

$$\int -e^{u} du = -e^{u} + C$$

$$= -e^{\frac{1}{2}} + e^{\frac{1}{1}}$$

$$= e - e^{\frac{1}{2}}$$

$$2 \mid \int_0^1 re^{\frac{r}{2}} dx$$

$$\int_0^1 re^{\frac{r}{2}} dx = \int dx$$