Find $\frac{d}{dx} \int_{0}^{x^{1}} \cos t \, dt$.

Find
$$\frac{d}{dx} \int_{0}^{x^{1}} \cos t \, dt$$
.

$$\frac{d}{dx} \int_{0}^{x^{2}} \cos t \, dt$$

$$= \cos(x^{2}) \cdot 2x$$

$$= 2x \cos(x^{2})$$

7/8/25