Answer on Question #78905 - Math - Calculus

$$\frac{d}{dx} \int_{x^2}^0 \sin t^2 dt = \frac{d}{dx} \left(-\int_0^{x^2} \sin t^2 dt \right) = -\frac{d}{dx} \int_0^{x^2} \sin t^2 dt = -\sin(x^2)^2 \cdot (x^2)' = -2x \sin x^4 \neq -\sin x^2$$

Thus, the statement is false.