| 2.6#7
$$\lim_{x \to 0} x^2 \cos \frac{1}{x}$$

-1\(\alpha \cos\frac{1}{x} = \right) = -x^2 \leq x^2 \cos\frac{1}{x} = \frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} = \frac{1}{x} \cos\frac{1}{x} = \frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} = \frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} = \frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1}{x} \cos\frac{1

true leave et is un increasing function

 $\int x e^{\frac{1}{2}} - \int x \cos^{\frac{1}{2}} \frac{1}{\sqrt{x}} = \frac{1}{\sqrt{x$ lim e 5x = elim 5x = 0.e=0

squeize thm

lim -/2^t-1/ = lim | 2^t + | = 0, Dor lim (2^t-1) cos = 0 + 20 tro

lime of JX = lime JX = 0 sor lim Jye (OSCHIX) = 0 lo