Assignment 06

1. Show that for $|x| \leq 1$, $e^x(1 - x^2) \leq 1 + x \leq e^x$.

2. Let $\left(1 - \left(1 - \dfrac{1}{n}\right)^{km}\right)^k \approx (1 - e^{\square})^k$. Find $\square = ?$