1. Let $f(x) = e^x$. Find the slope of the secant line through the points on the graph y = f(x) for

(a)
$$x = 0, x = 1$$

(b) $x = 0, x = \frac{1}{2}$
(c) $x = 0, x = \frac{1}{10}$
(d) $x = 0, x = \frac{1}{100}$
2. Estimate $\lim \frac{e^{x} - 1}{100}$

 $x \rightarrow 0$

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