

Q1. $\lim_{x \rightarrow 1} \frac{e^x - e}{1 - x}$ represents the derivative of some function, $f(x)$, at some point, a . **Find** $f(x)$, a , and evaluate the limit.

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Q2. Find the equation of the normal line to $f(x) = \frac{2e^x}{\sqrt{x}} + ex - 3e$ at $x = 1$

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