



b)  $\frac{d}{dx} \ln x$

c)  $\frac{d}{dx} e^x$

d)  $\frac{d}{dx} a^x$

e) Derivatives of the 6 inverse trig functions

f)  $\lim_{x \rightarrow +\infty} e^x = \underline{\hspace{2cm}}$      $\lim_{x \rightarrow -\infty} e^x = \underline{\hspace{2cm}}$      $\lim_{x \rightarrow +\infty} \ln x = \underline{\hspace{2cm}}$      $\lim_{x \rightarrow 0^+} \ln x = \underline{\hspace{2cm}}$