

(1)[5 points] Find the derivative of

$$y = e^{\cosh(3x)}$$

(2)[5 points] Evaluate

$$\lim_{x \rightarrow 0} \frac{e^x - 1 - x}{x^2}$$

(3)[5 points] Evaluate

$$\lim_{x \rightarrow \infty} x - \ln x$$