

1. $\lim_{x \rightarrow 0} \frac{2^x - 3^x}{6x}$

2. $\lim_{x \rightarrow \infty} x^2 e^{-x/12}$

3. $\lim_{x \searrow 0} x^x$

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

5. $\lim_{x \searrow 0} x^{\sin x}$