${f Quiz}$ (Week 17-12-2017 - 21-12-2017) Math-101, Calculus I Prepared by Dr. Kareem Elgindy

Question 1. Find the following limits:

- (a) $\lim_{x\to 0} x^2 \ln x$.
- **(b)** $\lim_{x \to \infty} (x^2 \log x).$

Question 2. Sketch the graph of $\sin x + \cos x$. Show your steps neatly.