Quiz 11

Name:

1. Use L'Hôpital's rule to evaluate the following limits:

(a) $\displaystyle\lim_{x\to 0} \frac{\cos\left(x^2\right) - 1}{x^2}$

(b) $\displaystyle\lim_{x\to \pi} \frac{\sin\left(x - \pi\right)}{\ln x - \ln \pi}$

(c) $\displaystyle\lim_{x\to\infty} x^2 e^{-x}$