

Quiz #8b: Sections 8.1 & 8.2

CALCULATE THE FOLLOWING LIMITS

If the limit does not exist, explain/show why.
Show all work to get full credit. Simplify **all** answers.

5 pts. 1. $\lim_{x \rightarrow 0} \frac{\tan 2x}{\sin 3x}$

5 pts. 2. $\lim_{x \rightarrow 0} \frac{\cos x}{x^2}$

5 pts. 3. $\lim_{x \rightarrow \infty} \frac{2x^3}{\ln x}$

5 pts. 4. $\lim_{x \rightarrow \infty} x^{1/x}$

Points earned: _____ out of a possible 20 points