

CALCULUS
Trigonometric limits
OLD

WARNING: In this homework, do NOT use
l'Hôpital's rule. It has not been covered yet.

OLD 0230-1. Compute $\lim_{\theta \rightarrow 0} \frac{\sin^3 \theta}{[\theta^3][\cos(\theta^2)]}$. Do NOT use l'Hôpital's rule.

OLD 0230-2. Compute $\lim_{h \rightarrow 0} \frac{1 - \cos h}{\tan h}$. Do NOT use l'Hôpital's rule.

OLD 0230-3. Compute $\lim_{x \rightarrow 0} \frac{\sin(5x)}{x}$. Do NOT use l'Hôpital's rule.

OLD 0230-4. Compute $\lim_{x \rightarrow 0} \frac{\sin(5x)}{\cos(x)}$.

OLD 0230-5. Compute $\lim_{\phi \rightarrow 0} \frac{\sin(5\phi)}{\tan(\phi)}$. Do NOT use l'Hôpital's rule.

OLD 0230-6. Compute $\lim_{\theta \rightarrow 0} \frac{\sin(\cos(2\theta))}{\sec^2(\theta)}$.