

CALCULUS
Trigonometric limits
NEW

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

0230-1. Compute $\lim_{\theta \rightarrow 0} \frac{[\theta^6][\cos^3 \theta]}{\sin^5 \theta}$. Do NOT use l'Hôpital's rule.

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

0230-3. Compute $\lim_{x \rightarrow 0} \frac{\sin(8x)}{4x}$. Do NOT use l'Hôpital's rule.

0230-4. Compute $\lim_{x \rightarrow 0} \frac{\sin(6x)}{\cos^2(2x)}$.

0230-5. Compute $\lim_{\rho \rightarrow 0} \frac{\sin(6\rho)}{\tan(3\rho)}$. Do NOT use l'Hôpital's rule.

0230-6. Compute $\lim_{\sigma \rightarrow 0} \frac{\sec(\sin(2\sigma))}{\cos^3(\sigma)}$.