

CALCULUS
Trigonometric limits
OLD2

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

0230-1. Compute $\lim_{\theta \rightarrow 0} \frac{\sin^4 \theta}{[\theta^3][\cos^2 \theta]}$.

Do NOT use l'Hôpital's rule.

0230-2. Compute $\lim_{h \rightarrow 0} \frac{1 - (\cos h) + (\tan h)}{\sin h}$.

Do NOT use l'Hôpital's rule.

0230-3. Compute $\lim_{x \rightarrow 0} \frac{\sin(6x)}{2x}$.

Do NOT use l'Hôpital's rule.

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

0230-5. Compute $\lim_{\phi \rightarrow 0} \frac{\sin(6\phi)}{\tan(2\phi)}$.

Do NOT use l'Hôpital's rule.

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