## 5.4 Indeterminate Form & L'Hotitel's Rule

L'Hopital Rule applies if  $\lim_{x\to a} \frac{f(x)}{g(x)}$  is of the form  $\frac{o}{o}$  or  $\frac{\infty}{\infty}$ .  $x\to a \frac{g(x)}{g(x)}$   $= \lim_{x\to a} \frac{f'(x)}{g'(x)}$  if it exists  $x\to a \frac{g(x)}{g(x)} = x\to a \frac{g'(x)}{g'(x)}$  or equal  $x\to a$ .

Indeterminate forms look like!  $\frac{0}{0}$ ,  $\frac{\infty}{0}$ ,  $0^{\circ}$ ,  $\infty^{\circ}$ ,  $0^{\circ}$ , 0

Assignment Quertières:

5.4,1 (a), (l), (t)

5.4.3

5.4.2 (a), (b)(c), (d)

5.5.3 5.5.8 d, f, 9

5.8.1 5.8.28

5.8.14

5.8.19