EX) $\displaystyle\lim_{h\to 0} \frac{\cos\left(h+\dfrac{\pi}{3}\right)-\cos\left(\dfrac{\pi}{3}\right)}{h} =$

Sneaky way of saying "find the derivative of $f(x)=\cos x$ evaluated at $x=\dfrac{\pi}{3}$"

So, none of the methods for limits are actually used to find this limit!

EX) **Use the calculator** to find $\displaystyle\lim_{\Delta x\to 0} \frac{\log(9+\Delta x)-\log 9}{\Delta x} =$

Sneaky way of saying "find the derivative of $f(x)=\log x$ evaluated at x = 9"