Question #12900

What is the limit, $\lim_{h \to 2} \dfrac{(1/3 - 2/(3h))}{(h-2)}$?

Solution. Write $\dfrac{(1/3 - 2/(3h))}{(h-2)} = \dfrac{\frac{h-2}{3h}}{h-2} = \dfrac{1}{3h}$. Thus, $\lim_{h \to 2} \dfrac{(1/3 - 2/(3h))}{(h-2)} = \lim_{h \to 2} \dfrac{1}{3h} = \dfrac{1}{6}$.

Answer. $1/6$.