

After explaining to a student, with various lessons and examples, that:

$$\lim_{\substack{x \rightarrow 8 \\ x \geq 8}} \frac{1}{x - 8} = \infty.$$

I tried to check if she really understood that, so I gave her a different example.

This was the result:

$$\lim_{\substack{x \rightarrow 5 \\ x \geq 5}} \frac{1}{x - 5} = 5.$$