

Title

Author

Today

Topology of \mathbb{R}

Open subsets of \mathbb{R}

Definition: O is open if

$$\forall x \in O, \exists V_\epsilon(x) \epsilon > 0, V_\epsilon(x) \subseteq O$$

This statement looks pretty good (I'm not exactly sure how it should look, though) but to insert spaces you can see that I ended the "math" statement with a dollar sign, put in a space, and then continued with the statement:

$$\forall x \in O \exists V_\epsilon(x) \epsilon > 0 | V_\epsilon(x) \subseteq O$$

One problem that I noticed with the statement above just now is that you can't use the double \$ to center the problem.

$$\exists V_\epsilon(x)$$

$$\forall x \in O \exists V_\epsilon(x) \epsilon > 0 | V_\epsilon(x) \subseteq O$$

Additionally, how do *you* skip lines? Do you use two forward slashes like I have in this document?