

Use the following spaces to record any information about key topics that you find useful.

Axiom. *The absolute value of a real number x is defined to be $|x| = -x$ if $x \leq 0$, and $|x| = x$ if $x \geq 0$.*

\Rightarrow Proof by cases:

Theorem. *For any real number x , $|x| \geq 0$.*

Proof.

Case 1:

Hypothesis: _____

Conclusion: _____

Case 2:

Hypothesis: _____

Conclusion: _____

□