## **Week 1**

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### **Websites**

[Why "if A, then B or C" is equivalent to "if A and B, then C" - Mathematics Stack Exchange](https://math.stackexchange.com/questions/3791297/proof-of-if-a-then-b-or-c?rq=1)

[Negation, clarified (toronto.edu)](https://www.math.toronto.edu/preparing-for-calculus/3_logic/we_3_negation.html)

[What's the difference between the empty set and the set containing only the empty set? - Quora](https://www.quora.com/Whats-the-difference-between-the-empty-set-and-the-set-containing-only-the-empty-set)

[Intersection and union of Set A with Empty Set - Mathematics Stack Exchange](https://math.stackexchange.com/questions/1124251/proof-of-intersection-and-union-of-set-a-with-empty-set#:~:text=Hence%20the%20union%20of%20any,set%20is%20an%20empty%20set.)

### **Videos**

[Proof by Contradiction | Method & First Example - YouTube](https://www.youtube.com/watch?v=huGWXh4l1M0)