

*Sentences 1 – 3 are false. Prove it.*

1. If someone is from Missouri, then that person loves the cold.
2. All even numbered movie sequels are worse than the odd numbered movies in that series.
3. Whenever someone knows they should do something, they will do it.

**A little logic:**

conditional: a general claim about all members of some category, or a general claim about every time some proposition is true

In this class, we'll always express conditionals using "If ... then..." "Whenever ..." or "All ..."

*If something is a human, then it is an animal.*  
*Whenever Fred goes to the store, he buys milk.*  
*All kittens are cute.*

antecedent: the category or proposition that a conditional makes a general claim about

*If something is a human, then it is an animal.*  
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*All kittens are cute.*

consequent: what a conditional asserts about the category/proposition in its antecedent

*If something is a human, then it is an animal.*  
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counterexample: a counterexample to a conditional shows that the conditional is false. A counterexample must:



wrong vs. permissible:

x is obligatory (or x is a duty): it is wrong to not do  $x$

partly good / bad:

x is overall good: the goodness of  $x$  outweighs the badness

x is overall bad: the badness of  $x$  outweighs the goodness

*Give a plausible counterexample to each of the following:*

10. If  $x$  is permissible to do, then it is morally obligatory to do  $x$ .

11. If  $x$  is wrong to do, then it is permissible for anyone to prevent another person from  $x$ ing.

12. If someone has a duty to do  $x$ , then it is wrong for anyone to stop that person from  $x$ ing.