

Due: In class today and Wednesday

Write each of these connected statements symbolically, and define each basic statement. Then, construct a truth table to confirm your result.

Example					
<i>If she's there then I'm not staying.</i>	<i>p</i>	<i>q</i>	<i>~q</i>	<i>p ⇒ ~ q</i>	<i>Confirmation</i>
	<i>T</i>	<i>T</i>	<i>F</i>	<i>F</i>	<i>statement is a lie</i>
	<i>T</i>	<i>F</i>	<i>T</i>	<i>T</i>	<i>statement is confirmed</i>
<i>Symbolically: $p \Rightarrow \sim q$</i>	<i>F</i>	<i>T</i>	<i>F</i>	<i>T</i>	<i>statement is confirmed</i>
	<i>F</i>	<i>F</i>	<i>T</i>	<i>T</i>	<i>statement is confirmed</i>
<i>p = "She is there."</i>					
<i>q = "I am staying."</i>					

- (1) If everybody finishes most of the problems, then the assignment won't be this short next time.

- (2) Don't talk with your mouth full.

- (3) Your fuel line froze up so it's probably not going to start.

- (4) Just because you're rich doesn't mean you'll be happy.

- (5) Stop, except right turn.

- (6) I like this class as long as there's no quiz.

- (7) If we do a group assignment or work on our writing, this class isn't so bad.

- (8) The heater is broken and it's cold outside, so I'm not just wearing a T-shirt.

- (9) Married people tend to be healthier and more economically stable than single people and children of married people tend to do better on a variety of indicators.

- (10) You'll be happy in your room if and only if you like your roommate, otherwise you won't enjoy living on campus.

- (11) Get a cappuccino or espresso, unless you'd prefer something cold.