Help with Test 1 correction

#15. Set E contains 70 elements, set F contains 28 elements, the number of elements in neither E nor F is 14, and set $E \cup F$ has 86 elements.

a. $n(F \cap E)$

Definers for Example: s = my shape is a square. b = the color of my shape is blue.

S	~s
Т	
F	

Negation _____ the truth values.

S	b	s ∧ b
Т	Т	
Т	F	
F	Т	
F	F	

Conjunction is true only_

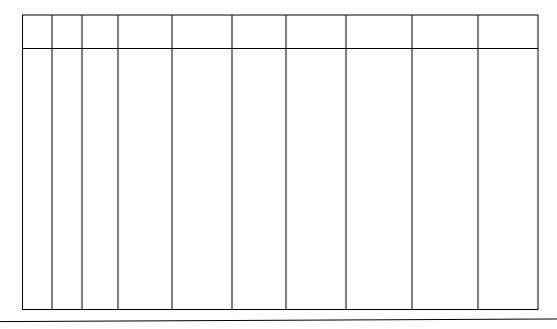
S	b	s∨ b
Т	Т	
Т	F	
F	Т	
F	F	

Disjunction is only false when

1) Practice where w = today is Wednesday, and s = I can sleep in, r = I will rest tomorrow

If f is true, and s is false, r is true. Identify the truth value of each

- a) $w \wedge s$ ______, b) $\sim (s \vee w)$ ______, c) $\sim (w \vee \sim s) \wedge r$ _____
- 2 Complete a truth table for $\sim (f \vee \sim s) \wedge r$



If a statement has k variables, then the truth table will have _____ lines.

- 3) To set up a truth table the number of lines ______ each time you add a different simple statement. So the number of lines needed for the truth table in each compound statement below is:
 - a. $\sim (f \vee \sim s) \wedge r$
 - b. $\sim s \vee f \wedge s$ _____
 - c. $\sim (f \vee \sim s) \wedge s$

Assignment for Friday, 9/16:

Complete #1, 7-10, 19, 25, 26, 33, 39, 71, 72 on pp. 99-102 (Quiz Friday over sections 3.1 & 3.2) Keep working on your test corrections that will be due on Monday.