			Name:
<u>Tru</u>	th Value	<u>;:</u>	
			ermine if a compound statement is true or false, given all true/false combinations of the simpler the compound statement.
Ne	gations:		
Cor	<u>ijunctio</u>	ns:	
			J
Dis	unction	ı <u>s</u> :	

			ruth table for the following statement:	
"Maria	drinks 1	tea, or sl	she drinks black coffee and not sugary coffee "	
-	+-			
Condit	ionals:			
			٦	
			7	
			4	
			1	
			1	
		<u> </u>	<b>」</b>	

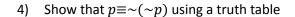
## Math 107 Section 1.3

2) Construct a truth table for the following statement:

	t is raining, t			Wet			
	1 1		1				
"If I				the following sta			
			r it tha alawa	tar isn't warkind	than I walk ur	the stairs"	
		icise o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		icise o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		icise o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
" '		Telse 0	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		rcise o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		Telse o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		Telse o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		Telse o	r if the eleva	tor isn't working	g, then I walk up	the stairs"	
		Telse o	r if the eleva	tor isn't working	g, then I walk up	o the stairs"	
		Telse o	r if the eleva	tor isn't working	g, then I walk up	o the stairs"	
		Telise o	r if the eleva	tor isn't working	g, then I walk up	o the stairs"	
		Telise o	r if the eleva	tor isn't working	g, then I walk up	o the stairs"	
		Telise o	r if the eleva	tor isn't working	g, then I walk up	o the stairs"	

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			•
Equiv	aient	Express	ions:



5) Use a truth table to determine if the following statements are equivalent: "If I am a homeowner, then I pay property taxes"
"I am a homeowner and do not pay property taxes"

## De Morgan's Laws: 1) Negation of a conjunction $p \land q$ :

2) Negation of a disjunction  $p \lor q$ :

6)	Write (in words) the negation of the following statement		
	a)	"It is Friday and I receive a paycheck"	
	b)	"My computer is broken or the internet is not working"	
	c)	"Rainy weather is sufficient for watching Netflix"	