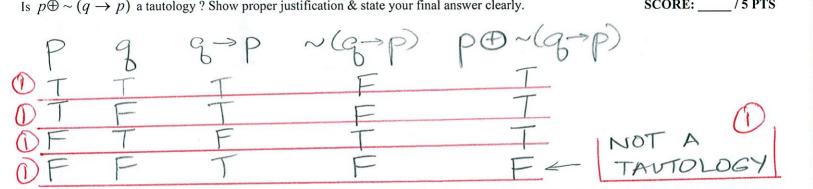
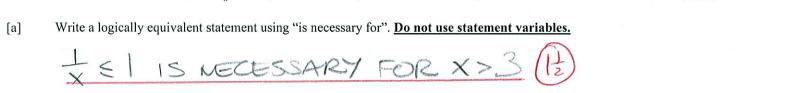


Write the formal definition of a valid argument. Use complete sentences and proper English. SCORE: /3 PTS (Assume that your reader already knows the definition of an argument.) AN ARGUMENT IS VALID IF AND ONLY IF, IN ALL CASES WHERE THE PREMISES ARE TRUE, THE CONCLUSION MUST BE TRUE





SCORE: /5 PTS

x>3 AND \$>1 (2)

[b]

[c]

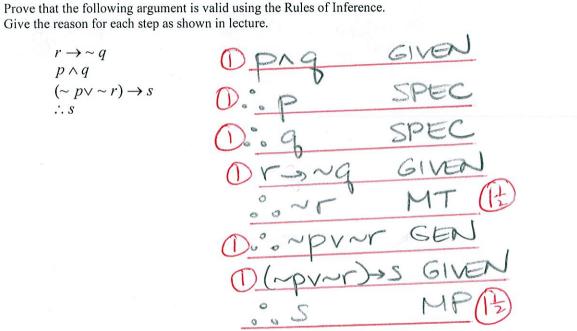
Consider the statement "if x > 3, then $\pm \le 1$ ". (Assume x is a particular real number.)

Write the negation of the statement. Do not use statement variables.

Write the inverse of the statement. Do not use statement variables.

$$|F| \times \leq 3$$
 $|F| \times |F| \times |F|$

Determine if the following argum NOTES: This is NOT an essay of			section 2.3. Do <i>NOT</i> use th	SCORE:/ 10 PTS e Rules of Inference.
If I save a lot of money of I did not win the lottery.	or I win the lottery, then I can	n buy an expensive ca	r. mvl-	
	mylac F T F T F	~ L F F T T F T	~C~~m TED ~ (TT T	D FOR IDENTIFYING ALL CRITICAL ROWS
			Av	S VALID



SCORE: _____/ 9 PTS