Math 330: Introduction to Higher Math, Section 1, Spring 2009 — Quiz $\#$ 3, March 20		
Name:		
I. Let $X, Y,$ and Z be statements. Are the following statements equivalent to "If X is true, then Y is true or Z is true"? Please circle your answers.		
1] If X is true and Y is false, then Z is true.		NO
2] If X is true and Z is false, then Y is true.		NO
3] If Y is false and Z is false, then X is false YES		NO
4] If Y is false or Z is false, then X is false. YES		NO
5] If Y is true or Z is true, then X is true.		NO
6] If X is true, then Y is true and Z is true YES		NO
7] If X is false, then Y is false and Z is false YES		NO
8] If X is false, then Y is false or Z is false YES	1	NO
9] X is false or Y is true or Z is true. YES		NO
10] X is true and Y is true and Z is true YES	1	NO
11] X is true and Y is true, or X is true and Z is true YES	[NO
II. What is the negation of the following statement?		

What is the negation of the following statement? "For all real numbers x and y, if x < y then there exists a rational number q such that x < q < y."