MCS-236 Homework 3

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You are given two statements

- (a) "3 = 9 whenever 7 > 6."
- (b) "Every boy is small or some girl is big."

and the assumption that "small" means "not big." Do the followings.

- 1. Write the contrapositive of Statement (a).
- 2. Write a negation of Statement (a) using "and" but not using "or."
- 3. Write a conditional statement that is logically equivalent to Statement (b).

Explain in detail how you arrived at each answer.