# MCS-236 Homework 3 

San Skulrattanakulchai

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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.

