

28. State the converse, contrapositive, and inverse of each of these conditional statements.

a) If it snows tonight, then I will stay at home.

b) I go to the beach whenever it is a sunny summer day.

c) When I stay up late, it is necessary that I sleep until noon

Solution :

a)

CONVERSE: If I will stay at home. Then it shows tonight

INVERSE: If it does not snow tonight, then I will not stay at home

CONTRAPOSITIVE: If I will stay at home, then it does not snow tonight

b)

CONVERSE: It is a sunny day whenever I go to the beach.

INVERSE: I do not go to the beach whenever it is not a sunny summer day.

CONTRAPOSITIVE: It is not a sunny summer day whenever I do not go to the beach.

c)

CONVERSE: When I sleep until noon, it is necessary that I stay up late.

INVERSE: When I do not stay up late, it is necessary that I do not sleep until noon.

CONTRAPOSITIVE: When I do not sleep until noon, it Is necessary that I do not stay up late.

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