Subject – CSE 103

Student ID – 1705107

Chapter = 1; Section = 1; Exercise = 27;

Verifying Student ID = 1705052

Solution:

(a)

Converse: I will ski tomorrow only if it snows today.

Contrapositive: If I don't ski tomorrow, then it will not have snowed ~~tomorrow~~ today.

Inverse: If it doesn't snow today, then I will not ski tomorrow.

(b)

converse: If I come to class, then there will be a quiz.

Contrapositive: If I don't come to class, then there won't be a quiz.

Inverse: If there is not going to be a quiz, then I don't come to class.

(c)

Converse: A positive integer is a prime if it has no divisors other than 1 and itself.

[Note: This can be false, since the number 1 satisfies the hypothesis but not the conclusion.]

Contrapositive: If a positive integer has a divisor other than 1 and itself, then it is not prime.

Inverse: If a positive integer is not prime, then it has divisor other than 1 and itself.