**Question 1:**The contrapositive of the inverse of p ⇒ ~q is

**Question 2:** Which of the following is the contrapositive of if two triangles are identical, then these are similar??

A) if two triangles are not similar, they are not identical

B) If two triangles are not identical, then these are not similar

C) If two triangles are not identical, then these are similar

D) If two triangles are not similar, then these are identical

**Solution:**

The inverse of p ⇒ ~q is ~ p ⇒ q

The contrapositive of ~ p ⇒ q is ~ q ⇒ p. [Because the contrapositive of p ⇒ q is ~ q ⇒ p.]

**Solution:**

Consider the following statements

p: Two triangles are identical.

q: Two triangles are similar.

Clearly, the given statement in symbolic form is p ⇒ q.

Therefore, its contrapositive is given by ~ q ⇒ ~ p

Now,

~p: two triangles are not identical.

~q: two triangles are not similar.

Therefore, ~ q ⇒ ~ p: If two triangles are not similar, then these are not identical.