Answer on Question #51691 – Math - Abstract Algebra

Mathematical Identities are sometimes indicated by the triple bar ----- when and why ??

Solution

In mathematics, an equivalence relation is a binary relation between two elements of a set which groups them together as being "equivalent" in some way. Let a, b, and c be arbitrary elements of some set X. Then "a ~ b" or **"a ≡ b"** denotes that a is equivalent to b.

If $a \Longrightarrow b$ and $b \Longrightarrow a$, then a and b are said to be equivalent, a relationship which is written symbolically in this work as $a \equiv b$.

An equivalence relation "≡" is reflexive, symmetric, and transitive.

Examples:
1 Dollar is equivalent to 100 cents
120 seconds is equivalent to 2 minutes