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## transitive

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Synonym	transitive property

The *transitive property* of logic is

$$(a \Rightarrow b) \wedge (b \Rightarrow c) \Rightarrow (a \Rightarrow c)$$

Where  $\Rightarrow$  is the conditional truth function. From this we can derive that

$$(a = b) \wedge (b = c) \Rightarrow (a = c)$$