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//Matthew McMillian
// \equiv \neg \Lambda V \rightarrow
1.6.18. Given the statement that "For Every Person, there is a person \boldsymbol{x}
that is shorter than person y", it is impossible to have a person be
short than him/herself. To correctly use this statement, you must add
that S(x,y) \times != y
1.6.24. The statement is invalid because the state says "For every value
x, there is a value P(x) or Q(x) that is true", however the 2nd statement
says For every value of P(x) or for every value of every value of Q(x);
The statemts are not equal
1.6.28. \forall x (p(x) \ V \ q(x)) \equiv \forall x ((\neg P(x) \ \Lambda \ Q(x) \rightarrow R(x))
      p(x) V q(x)
      \neg p(x)
      q(x)
      t \Lambda t \rightarrow R(x)
      r(x)
      (\neg P(x) \land Q(x) \rightarrow R(x)
      \forall x ((\neg P(x) \land Q(x) \rightarrow R(x))
//
1.7.16. If M & N are Ints, and MN is even, then M or N are even.
// Let m and n be integers
// let k be an even number
\exists k (x=2k), where x is even if and only if there is an int k such that x =
(m = 2k) V (n = 2k) \rightarrow (MN = 2k)
m = 5
n = 4
T \rightarrow T = T
1.7.20.
Counterargument::
n^2 >= n
p(1) \rightarrow (1)^2 >= 1
P(1) is a integer
P(n) is a integer
n is a integer
The argument is not true because n is an odd integer and it sastifies the
same statement.
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Proof:: Counterargument