Discrete Math Lecture 8 Negation

= "it is not true that P"

a countreexample

ex
$$\forall$$
 \forall $n \in \mathbb{N}$, $n^2 > 0$ is F is this \top or F ?

 $O \in \mathbb{N}$ $o^2 > 0$ is F

O is a counter-example

ex) - (Yxeu, Iyeu, P(xn) ~ Q(xn))

= 3xeu, - (3yeu, Plxi) Q (xiy)

= 3xeu, Yyeu, ¬(P(xm)~Q(x,y))

=] xeu, Yyeu, ¬P(xm)v ¬Q(xm)