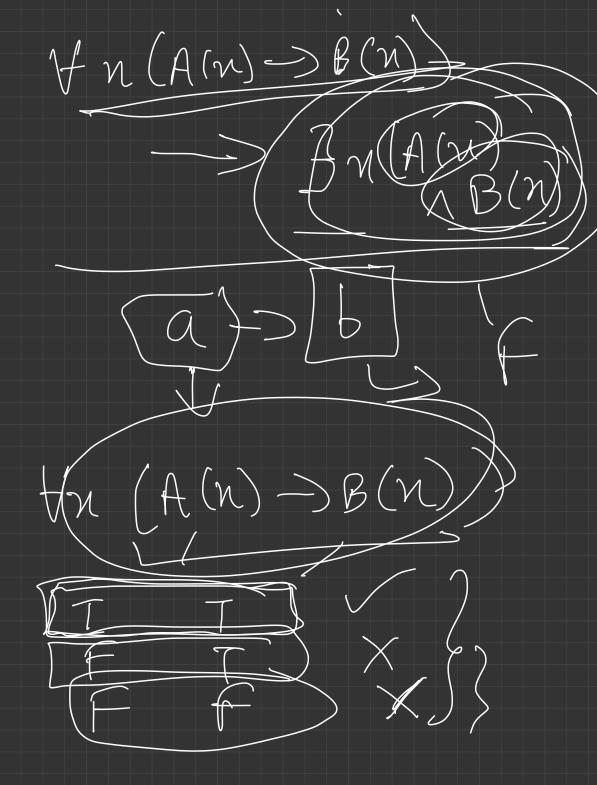
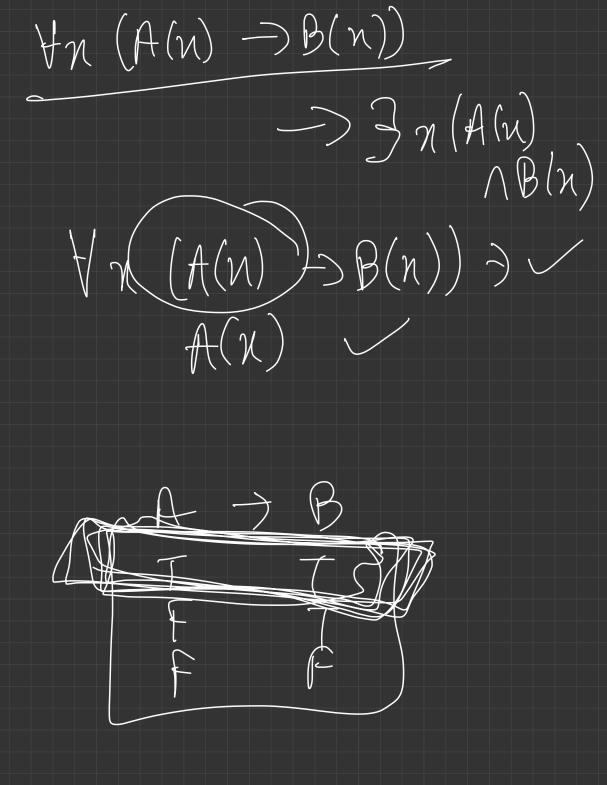
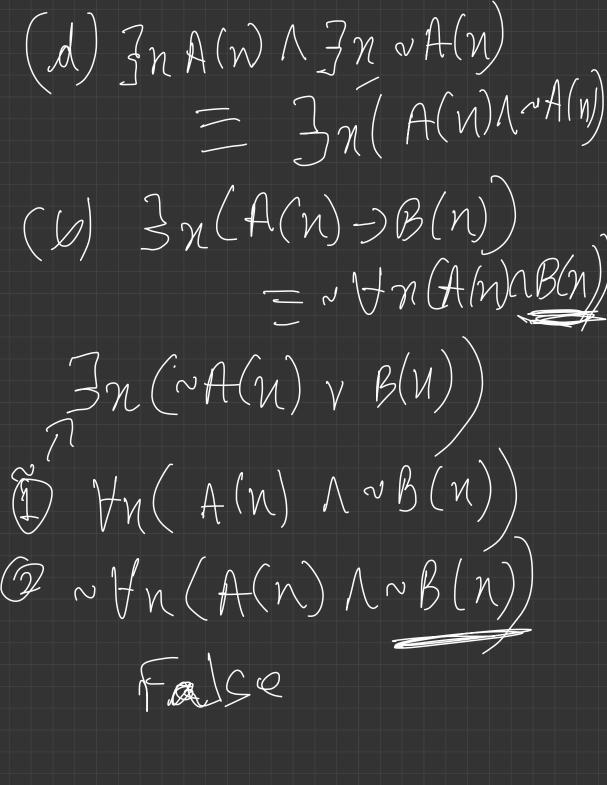
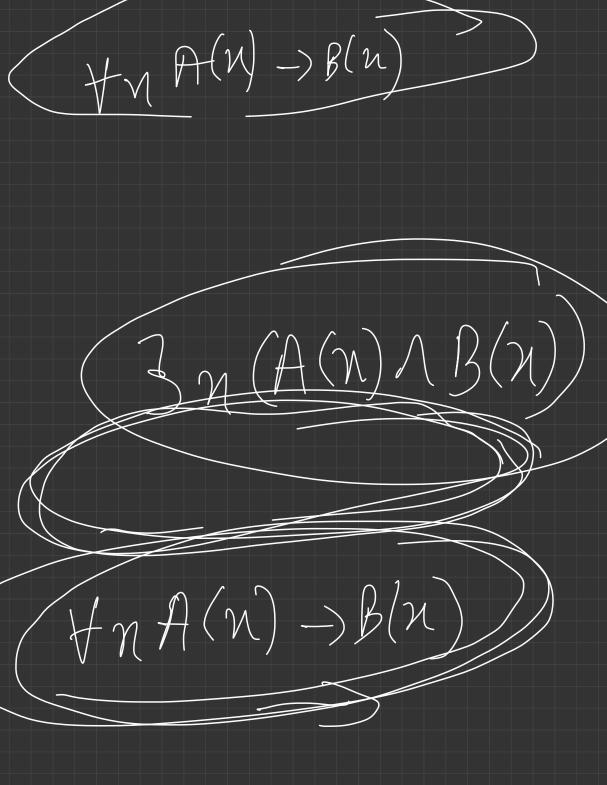
$\exists n (P(n) \rightarrow \sim Q(n))$ $\equiv \sim \forall n (P(n) \land Q(n))$ $\alpha - 3b \equiv \alpha \alpha \nu b$ (3n (np(n) v ~Q(n))) 1 ~ (H N P(N) N Q(N)) + 2 · 3 n P (n) 1 7 n n P(n) $= 3n(P(n) \Lambda \sim P(n))$ ever 1 odd

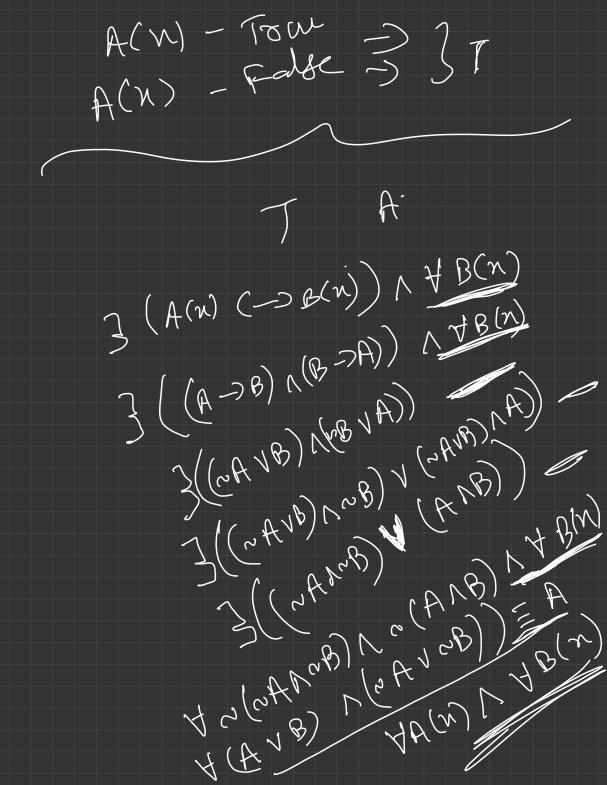








3 nf(n) 13 n(iA(n)) A(n) -) en mA(n) -) odd EN NENDA RECORD $n \in N$ 3n(A(n) (~A(n)) n e even rold x ASB B



N(&AV ~B)

$$R > 2^{2}$$
 $\times RY$
 $3 \mid x^{2}-Y^{2}$

Equivalent

 XRO
 $3 \mid x^{2}$
 XRO
 $3 \mid x^{2}$
 XRI
 $3 \mid x^{2}-I$
 $[0]$
 $[1] =$
 $R = \{(x_{1}, y_{1}), (x_{2}, y_{2}) : R^{2} \times R^{2}$
 $x_{1}^{2} + y_{1}^{2} = n_{2}^{2} + y_{2}^{2}\}$
 $x_{2}^{2} + y_{1}^{2} = a_{2}^{2} + b_{3}^{2}$

NE(AUB) & N € C NEA OS NEB &N € C

 $\geq \int 3n+1 + 2n+2$ 53n+1 + 1+ 1 2n+1 $n^3 - n - 1 = 0$ n de vational $\frac{a^3}{6^3} - \frac{a}{6} - 1 = 0$ $a^3 - ab^2 - b^3 = 0$

18 nen ab = a mod n => a = v mod n or b = 1 mod n

d= an

dlan+bm dl gcd(q,b)