INDUCTION STEP: ASSOCIATION, TOTAL STATE OF THE STATE OF

CONCLUSION: BY & INDUCTION, YMEIN

Exi = x*'-1

F(n+2) = F(n) + F(n+1)
$$\forall n \in \mathbb{N}$$

F(n+2) = F(n) + F(n+1) $\forall n \in \mathbb{N}$

PROVE: $\forall n \in \mathbb{N} \setminus \{0\}$ $F(n-1) \cdot F(n+1) - F(n)^2 = f(1)^3$

• BASE CASE: $M = 1$: $F(0) F(2) - F(1)^3 = f$

F(4-1) F(4+1) - F(4)2= (-1)4