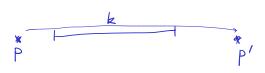
	Proof Techniques
	proposition (20:401) - duitani são vibino. P. Q 14.
	TP, PAQ, PVQ, P>Q P>Q "II
	predicate: P(n) P>a
	$Q \Rightarrow P$.
	Quantifier $\exists , \forall \forall x . P(x) = \exists x . P(x)$
	$\neg \exists x P(x) \equiv \forall x. \neg P(x)$
	$7 \forall x \exists y P(x,y) \equiv \exists x \forall y \neg P(x,y)$
	Enumeratem Proof by cases
	O1 1 1 1 1 1
	Claim: 29 AU. BONSAU: X 16AD Y A' XY IDLA DIL, MUSAU:
	$y = \sqrt{2}, y = \sqrt{2}$
	Case 1: xy 1/2 94. avsn4:
	Case 2: x b 12/8 Q 4. CYTAV: (IN DIA. DAVSA4:) for z = 12 12
	$2^{\times} = (\sqrt{2})^{\sqrt{2}} = \sqrt{2}^{2} = (2)$
	a) Jud Du. Orno: 200 du. & Danada mar No.
	(P=) Q direct proof
	P=> Q direct proof Suprisis P 03 66500 11 Q 030
2	
$P \Rightarrow Q$	ex: Bruto au. 192 x log or x ilu au. g six x2 llu au. g or. of or.
0 . 2	Prof: Assume o'n x 1/26 des of sign of Dou, one k of x=2k
Q=7P??	$y = (2k)^2 = 2 \cdot 2k^2$
	Ichoon k ju pu, mis 2k² idu qu, mis
	obsån x2 18moylered 2. ogranov. mla x218mon.g.
	N 20 20 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Mar mu. x long 124 qu. Iriza X2 124 qu. Iriza
\	

PAQ = 10 > 7 ex. Harvov m. inin p long of x2 illu ou. ining blas x 174 All imin porvi ひるいかものはにかけ メルカノ、あつ メ なりしてのは、1かからもか メンフかん "Proof by contraposition" a2+b2=c2 Proofs without words. thof by contradiction P --- Sar 7P 10 contradiction Claim! AL IZWY: 27 Di Dino Prof: oranis au. 12m1: 2 inio. P1, P2)... Pn 95 No acr P1- P2- -- P2 +1. = Z (ale 1: 2 1) LI DU. 10 W1: - 10 contradictions INST: 2 Triay Lo soon (Mez! Z ไม่เห็น ๆ น. เฉพา: ชินสง มี งน. เฉพา: บังง จ้า ขช Z ลงค่า blon p' a: Toion Linux INIT: Mry P; , Z mod P:=1 -> Tot contradictions INST: Jou. 1 AND: H' to 04 HISWM



Claim: Δημονικον κ θος α; σ τος χ, χ+1, χ+2, ..., χ+κ χ΄ χ,χ+1, ..., χ+κ λείνω ομ. ΙΩμη: (20).

Z= Zx3x4x5x6x--x M / Sinh mn-72si 5 M

Z+2 $Z+i \mod i=0$

Z+2, Z+3, ..., Z+M

Ž+4

by X = Z+Z In M= k+Z.

