Express 7 and V using A, > and Folse. TP 17 Po Folse PV(217 PD-2) T(2PATA). \$22. lower En: A=B A VX(XCA > xcB) A XCA xcC xcC		
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TP 17 P P False PVQ:77 PP PQ: 7(7PATA). \$22. look		Express 7 and V using 1, -> and False.
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\$22. lone Fa: A=B TA VX (X6A <= x6B) TA (VX (X6A <= x6B) (VX (X6B) = x6A). TA (X6B) A (X6A) The U=N Modes n = 1k6N, n=nk. notation as m/n. 3/12 T 1213 F 3/17 F In is imposit: Falb (a>1, b>1, n=ab). In is prime: n>1 A (n is not a composit). Ex: UCR Every real number have a cube root. VX7 y y 3=x (T) Every real number have an unique cube root. VX7 y (x3=x A - 73 (+3=x A + 2y)) 3/1x P(n) = exist an unique x that P(n) 2s true. For square root: VX>0 x y 3 x 1 x (x 2 x 2 x 2 x 2 x 2 x 2 x 3 x 3 x 1 x 2 x 1 x		7P 277 P-> false
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IF (back > x6B) \ (back) = x6A). IF (AEB) \ \ (BEA) Ex U=N "m divides n": IkEN, n=mk. notation as m/n. 3/12 T 12/3 P 3/7 P n is imposit: IaIb (ax1, bx1, n=ab). n is prime: n>1 \ (n:s not a composit). Lx: UCR Every real number have a cube root. VxIy y3=x (I) Every real number have an unique cube root. VxIy (y3=x \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
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Ilx Pix) = exist an unique x that Pix ?s true. for square root: Ux>0 IyIZ (y²=xn²=xny=2 A-Ik(k²=xn (k=y v k=2))) § More Ways to define a set: operations on list elements: { b, 7, 8}, { {1}, \$}. sets. set builder notation: { x Pix, }. index family: { n² n6N} = { 7; i t I } Set builder should stevt with variable. {x² xtz} = [o,in].		
for square root: $\forall x>0 \exists y\exists \exists (y^2=x\wedge z^2=x\wedge y\pm z\wedge \neg\exists k(k^2=x\wedge (k\pm y\vee k\pm z)))$ § More Ways to define a set: operations on list elements: $\{b,7,8\}, \{\{i\},\emptyset\}.$ sets. set builder notation: $\{x\} \mid P(x)\}$. index family: $\{x^2\mid n\in N\} \leftarrow \{\{i\},\{i\}\}\}$ Set builder should stert with variable. $\{x^2\mid x\in R\} = [0,in]$.		
$\forall x>0 \exists y \exists \overline{t} \left(y^2 \times \Lambda t^2 = x \wedge y + \overline{t} \wedge \neg \exists k (k^2 \times \Lambda (k + y \vee k + \overline{t}))\right)$ § More Ways to define a set: operations on list elements: $\{b, 7, 8\}$, $\{1\}$, $\emptyset\}$. sets. Set builder notation: $\{x \mid P(x)\}$. index $\{anily: \{n^2 \mid n \in \mathbb{N}\}\} \leftarrow \{7: i \in I\}$ $\text{Set builder should Stevt with variable.}$ $\{x^2 \mid x \in \mathbb{R}\} = [0, in]$.		
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Set builder should stert with variable. $\{x^2 \mid x \in \mathbb{Z}\} = [0, in]$		
		Set builder should start with variable.
₹n² 1 n6 ₹1, 4.7,9 ₹ ? = ₹1, 16, 49, 81 ?.		{x2 x62} = [0,in]).

{ [U, x) | x62+ } = { x62 | x6[U, in] }.

Prover cot a son cot A the consecret of A so contented out
Power set: given set A, the power set of A is notated as PLA) such that VICPLA), B & A.
En: P({2,33) = {\$\phi_{1}\$}, {33, {2,33}}.
* note that 2 & P({2,33) while \{23 \cappa P(\{2,33\)}
$242,33$ $\{235P(\{2,33\}) \in definition$
26 {2,3}.
BEPLAD BEA., ØSPLAD
Ø 6 P (A)
$P(\phi) = \{ \phi \}$.
A have a elements, then PLA) has 2" elements.
7 - 20 P(A)
Fr: ZCP(A) X6 PLAUB) ita x6A. ita x6 AUB.
iff by Lyex > yeA) iff by (yex -> yeAvyeB)
PCA) u PCB).