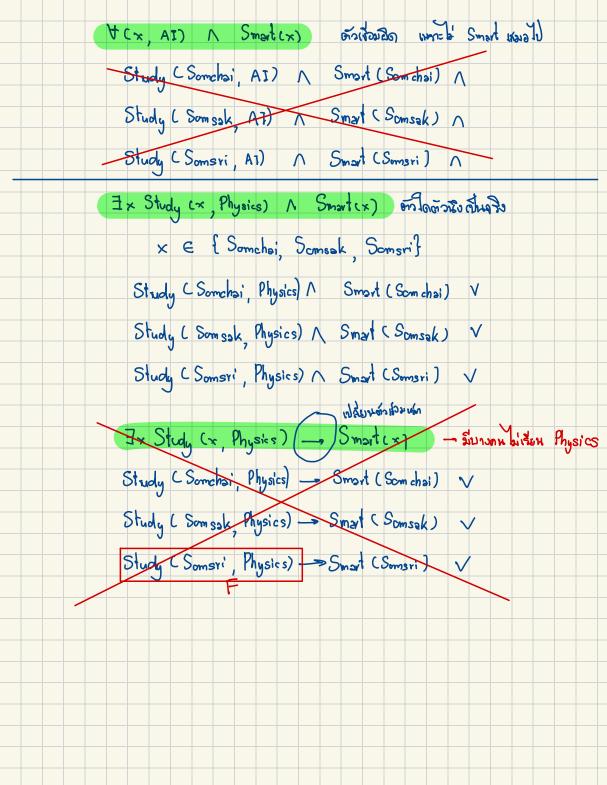
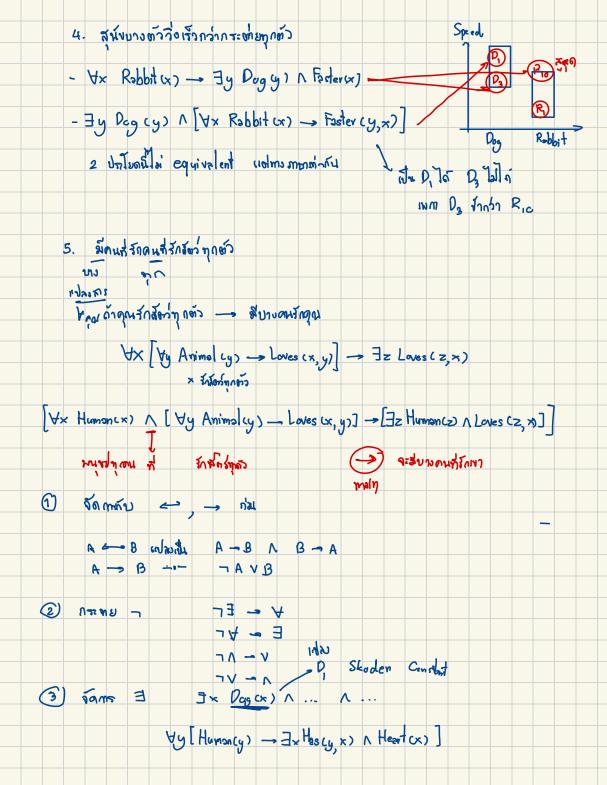


Fir	st	Ori	dev	L	၀၅ ် ဇ	<u>-</u>																	
	-	ಕ್ಷ ,	มุวค	ปร	ત	กหผุ	?संद)	× ,	g													
	-	Pve	dica	ite	4	กหลุ	Su	φ	B	roth	ev	۲ ۲,	y)		В	roth	ey (Ly,	×)	PM	มฐม	พันธ์	
	_	A	,∃		,	٧ ×	ย	Bro	ather	(×,	9 7	<u></u>	- E	Broth) ey (Ly,	×)						
					1	۸×,	y	Br	othe	א גא	رو,	-	-	Sil	lin	g (7	°,y,	>					
	-	fu	n chia	v)		Le	A_	led	g_ 0	fcx	()												
กา	ะแป	90 J	7,7	ยดเ	ועפו	เล่า	of _N	الأل	ৰ্মচ	_	1	-01	_										
										_				9,	์ตัวเ	1937 1	ลักที่	h	Λ				
)									
				Code)		7000				01	BYU	(7										
		7	t ai∪	rann C	אה גַּע			VI															
	1							นทเ	รียน	ι A	7,	เเล้	ρ¥c	ລາດ	_		Jen S	eopu	ence				
					'																		
		2.	*) (นที่ไ	รีน		IA	4	<u>ଖ</u> ର		1	، لو	Cons	egue	mcs							
			,	κ	ε	{	Son	mch	١, ٥	Som	sak		Som	sti	}								
				St.	uoly	C	Son	ncha	n' , ¬	AI)	->		Dm;	ort	(So	m ch	ai)	^				+
				Sh	udy	L	Son	ادی	5	([A	-	7		Sma	4 0	So	msə	k)	\wedge				
																١,							
				Sł	udy	(Som	sti	, P	(1) T	_	->	(Sma	<i>r</i> t (Son	nsri)					
										•							1						



∀x ∀y Loves (x, y) = ∀y ∀x Loves (x, y)
$\exists \times \exists y \ $
∀x =y Loves cx,y) ≠ =y ∀x Loves cx,y)
=x [y Loves (x, y)]
x,y \in \{ Adom, Bob, Cathy }
3× [Loves (x, A) A Loves(x, B) A Loves(x, C)] Dunonution, many with and
Yy [x Lones (x,y)]
Yy [Loves (A, y) V Loves (B, y) V Loves (c, y)] π πητητή η πητική στητορια
= (Lones (A, A) V Loves (B, A) V Loves (C, A)) A
(Loves CA, B) V Loves (B, B) V Loves (C, B)) 1
(Loves (A,c) v Loves (B,c) V Loves (C,c))
แปลงประโยกบอกล่า , ปฏิเสธ - FOL
1. มีชาวต่างชาติบางคนเป็นเจ้าของโรงแรม
1. มชาวชางชาชบทุกนเบนสาขมางแรม ระบุร่า ×, 4 เป็นโคร นุกติดกันโลเลม
=>,y Holelcx) A Foreigner (y) A Owner (y,x)
2. นร.ที่เรียน AI ทุกคนหน้าตาลี
V× Student (x) 1 Study (x, AI) - Goodlooking (x)
3 สุน์พทุกตัวสิ่งเรือกว่ายต่วทุกตัว
Vx, y Dog cx> 1 Turtle cy) - Faster cx, y)
Res Tanke



Human (x) V Animal Cloved(x) V Human (x) V - loves (x, x) V Human (x) V Animal Cloved(x) V Loves (c, x)																			
Thuman (x) V Animal Closed(x)) I Thuman (x) V Thuman (x) V Animal Closed(x)) I I Human (x) V Animal Closed(x)) I I Human (x) V Animal Closed(x)) I I Human (x) V Animal Closed(x) V I I A I Human (x) V I I I Human (x) V I I Human (x) V I I I I Human (x) V I I I Human (x) V I I I I Human (x) V I I I Human (x) V I I I I I I Human (x) V I I I I I I Human (x) V I I I I I I Human (x) V I I I I I I Human (x) V I I I I I I Human (x) V I I I I I I Human (x) V I I I I I I I Human (x) V I I I I I I I I I Human (x) V I I I I I I I I I I I I I I I I I I					\forall	'y [H	luman	(4)	_	Hasc	y H) /	Hoy	CX	2]				
Has by, Huy) A Head CHuy) Skadon Genetica Has by, Huy) A Head CHuy) Has by, Huy) A Head CHuy) Has by, Huy, South Javay (a) of on Y on J Ex [Yx Human (x) \ [Yy Animal (y) - Loves (x, y)] - [Iz Human (z) \ Loves (z, x)] Yx - [Human (x) \ [Yy - Animal (y) - Loves (x, y)] \ [Iz Human (z) \ Loves (z, x)] Yx - [Human (x) \ [Yy - Animal (y) \ Loves (x, y)] \ [Iz Human (z) \ Loves (z, x)] Yx - Human (x) \ [Ya Animal (y) \ Loves (x, y)] \ [Iz Human (z) \ Loves (z, x)] Yx - Human (x) \ [Ya Animal (Loved (x)) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						0													
Skaden function Hy South and y (4) of on V is (5) nstand V, A Ex [Vx Humancx) A [Vy Animalcy) - Loves (x, y)] - [3z Humancz) A Loves (z, x)] Vx - [Humancx) A [Vy Animalcy) - Loves (x, y)] V [3z Humancz) A Loves (z, x)] Vx - [Humancx) A [Vy - Animalcy) V Loves (x, y)] V [3z Humancz) A Loves (z, x)] Vx - Humancx) V [3y Animalcy) A Loves (x, y)] V [3z Humancz) A Loves (z, x)] Vx - Humancx) V [Animal (Loved(x)) A - Loves (x, loved(x))] V [Human (Love (x)) A Loves (Love(x), x)] [1 - Human (x) V Animal (Loved(x)) V [1] A [- Humancx) V - Loves (x, Loved(x))] V [1 - Humancx) V Animal (Loved(x)) V [1] A [- Humancx) V - Loves (x, Loved(x))] [1 - Humancx) V Animal (Loved(x)) V [1] A [- Humancx) V - Loves (x, Loved(x)) V [1] [1 - Humancx) V Animal (Loved(x)) V [1] A [- Humancx) V - Animal (Loved(x)) V [1] [1 - Humancx) V Animal (Loved(x)) V [1] A [- Humancx) V - Animal (Loved(x)) V [1] [1 - Humancx) V Animal (Loved(x)) V [1] A [- Humancx) V - Animal (Loved(x)) V [1]		15 6	1	1		LI									,7				
(4) of on Y of one (x) \ (Yy Animal (y) - Loves (x, y)] - [= z Human (z) \ Loves (z, x)]] Vx = [Human (x) \ (Yy Animal (y) - Loves (x, y)] \ V [= z Human (z) \ \ Loves (z, x)] Vx = [Human (x) \ (Yy = Animal (y) \ \ Loves (x, y)] \ V [= z Human (z) \ \ \ Loves (z, x)] Vx = [Human (x) \ V [= y Animal (y) \ \ \ Loves (x, y)] \ V [= z Human (z) \ \ \ \ Loves (z, x)] Vx = Human (x) \ V [= y Animal (y) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		ישאייוי	TA C.	. du .	. Øy	Num:	an (y)		Mas	Ly,	HLy)) /\	114कत	- 17 to	٦ (دا				
(a) of the state o		SKOM	n wm	ellon							Hw	8,51	เปลงล	fa .					
(a) Nove (b) V, A Ex [Vx Human(x) \ \ [\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \											7'			J					
(a) Nove (b) V, A Ex [Vx Human(x) \ \ [\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		4)	ท์ด	كب ښ ∀															
Ex [Vx Human(x) \ [\(\text{ Yy Animal (y)} \) Loves (x, y)] \(\text{ [Human(z) \ \Loves (z, x)]} \) \\ \text{ Yx [Human(x) \ \(\text{ Yy Animal (y)} \) \text{ Loves (x, y)]] \(\text{ [Human(z) \ \Loves (z, x)]} \) \\ \text{ Yx [Human(x) \(\text{ [Yy Animal (y) \text{ Loves (x, y)]} \text{ [Human (z) \(\text{ Loves (z, x)} \)]} \\ \text{ Yx Human(x) \(\text{ [Animal (y) \text{ Loves (x, y)]} \text{ V [\(\text{ Human (z) \text{ \Loves (z, x)} \)]} \\ \text{ Yx Human (x) \(\text{ V [Animal (Loved(x)) \text{ \name \text{ Love (x)} \)} \) \\ \text{ [Human (Love (x)) \(\text{ Love (x)} \)] \(\text{ V = Loves (z, Loved(x))]} \) \\ \text{ [Human (x) \(\text{ V Animal (Loved(x))) \(\text{ \text{ Love (x)} \)} \), \(\text{ \text{ \text{ \Loved (x)})]} \) \\ \text{ [Human (x) \(\text{ V Animal (Loved(x)) \) \text{ \text{ \text{ \Loved (x)} \)}} \] \text{ [Thuman (x) \(\text{ V Animal (Loved(x)) \) \text{ \text{ \text{ \Loved (x)} \)}} \] \\ \text{ [Thuman (x) \(\text{ V Animal (Loved(x)) \) \text{ \text{ \text{ \text{ \text{ \Loved (x)} \)}}} \] \text{ [Thuman (x) \(\text{ \text{ \Loved (x)} \) \\ \text{ \text{ \text{ \text{ \text{ \text{ \Loved (x)} \)}}} \) \\ \text{ \text{ \text{ \text{ \Loved (x)} \)}} \) \\ \text{ \text{ \text{ \text{ \Loved (x)} \)}} \\ \text{ \text{ \text{ \Loved (x)} \)}} \) \\ \text{ \text{ \text{ \Loved (x)} \)} \\ \text{ \text{ \text{ \Loved (x)} \)}} \\ \text{ \text{ \text{ \Loved (x)} \)}} \\ \text{ \text{ \text{ \Loved (x)} \)}} \text{ \text{ \text{ \Loved (x)} \)}} \\ \text{ \text{ \text{ \Loved (x)} \)} \\ \text{ \text{ \Loved (x)}} \\ \text{																			
Yx - [Human(x) N[Yy Animal(y) -> Loves(x,y)] V[Jz Human(z) N Loves(z,x)] Vx - [Human(x) N[Yy - Animal(y) V Loves(x,y)] V[Jz Human(z) N Loves(z,x)] Vx - Human(x) V[Jy Animal(y) N Loves (x,y)] V[Jz Human(z) N Loves(z,x)] Yx - Human(x) V[Animal (Loved(x)) N - Loves(x, Loved(x))] V [Human (Love(x)) N Loves (Love(x),x)] [In Human(x) V Animal (Loved(x))] N [n Human(x) V - Loves(x, Loved(x))] V [Human(x) V Animal (Loved(x)) V t] N [n Human(x) V - Loves(x, Loved(x))] V [In Human(x) V Animal (Loved(x)) V t] N [n Human(x) V - Loves(x, Loved(x))] V [In Human(x) V Animal (Loved(x)) V t] N [n Human(x) V - Loves(x, Loved(x))] (Loved(x)) V [In Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t]		(5)) 424 J) V,	Λ														
Yx - [Human(x) N[Yy Animal(y) -> Loves(x,y)] V[Jz Human(z) N Loves(z,x)] Vx - [Human(x) N[Yy - Animal(y) V Loves(x,y)] V[Jz Human(z) N Loves(z,x)] Vx - Human(x) V[Jy Animal(y) N Loves (x,y)] V[Jz Human(z) N Loves(z,x)] Yx - Human(x) V[Animal (Loved(x)) N - Loves(x, Loved(x))] V [Human (Love(x)) N Loves (Love(x),x)] [In Human(x) V Animal (Loved(x))] N [n Human(x) V - Loves(x, Loved(x))] V [Human(x) V Animal (Loved(x)) V t] N [n Human(x) V - Loves(x, Loved(x))] V [In Human(x) V Animal (Loved(x)) V t] N [n Human(x) V - Loves(x, Loved(x))] V [In Human(x) V Animal (Loved(x)) V t] N [n Human(x) V - Loves(x, Loved(x))] (Loved(x)) V [In Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t] N [n Human(x) V Animal (Loved(x)) V t]	Ex [A× H	นพอท	-×) /	[\	lu Av	וישם ני	۰۱_	. Love	s Ux. u	27 -	- [72	Hums	m(z)	Λ) cole	s C2	×17		
Vx = [Human (x) \ [\forall y = Animal (y) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \																			
Vx = [Human (x) \ [\forall y = Animal (y) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		∀x ¬	[Hw	משח (א	V[Vy F	Inimal	- رو،	- Lo	lesCx,	[[ر ۲	v [3	lz Hun	oan (z	2 1	Loves	(z,x)]		
YX THUMM(X) V[Animal (Loved(X)) NT Loves (x, Loved(X))] V [Humm (Love (X)) N Loves (Love(X), X)] [THUMM (X) V Animal (Loved(X))] N [THUMM (X) V T Loves (x, Loved(X))] V [Humm (X) V Animal (Loved(X))] N [THUMM (X) V T Loves (x, Loved(X))] V [Humm (Love (X)) N Loves (Love(X), X)] [THumm (X) V Animal (Loved(X)) V t]] N [THUMM (X) V T Loves (x, Loved(X)) V [] [THumm (X) V Animal (Loved(X)) V t]] N [THUMM (X) V Animal (Loved(X)) V []																			
[Human (Love CX)) \ Loves C Love(x), x)] [Human (Love CX)) \ Loves C Love(x), x)] [Interval) [Interval) [Human (x) \ Anthral C Loved(x))] \ [Interval Human (x) \ V - Loves Cs. Loved(x))] \ [Human (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x)] [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x)] [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x)		∀ × ¬	[Hu	man (x)	V L	¥y ¬	Anima	ا زواد	v Lo	iescx,	צרכץ	VL:	tz Hum	2) NO) V [-oves	(z,×).	J	
[Human (Love CX)) \ Loves C Love(x), x)] [Human (Love CX)) \ Loves C Love(x), x)] [Interval) [Interval) [Human (x) \ Anthral C Loved(x))] \ [Interval Human (x) \ V - Loves Cs. Loved(x))] \ [Human (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x)] [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x)] [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x) [Interval (x) \ V Animal C Loved(x)) \ V \ Loves C Love(x), x)		∀׬	Him	~ (×2)	, Γ _¬ ,	Anis	.1	Λ l c	We 6 (J.V	7 ₂	Human	(-)	۸۱۵	Vee c-	1		
[Human (Love (x)) \ Loved (x)] \ [THuman (x) \ Animal (Loved (x))] \ [THuman (x) \ Animal (Loved (x))] \ [THuman (x) \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ Thuman (x) \ V \ Animal (Loved (x)) \ Thuman (x) \ V \ Animal (11 60	ves cz	, איז		
[Human (Love (x)) \ Loved (x)] \ [THuman (x) \ Animal (Loved (x))] \ [THuman (x) \ Animal (Loved (x))] \ [THuman (x) \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [THuman (x) \ V \ Animal (Loved (x)) \ V \ T] \ \ [Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ V \ Thuman (x) \ V \ Animal (Loved (x)) \ Thuman (x) \ V \ Animal (Loved (x)) \ Thuman (x) \ V \ Animal (XX 7	Hum	w(x)	ν[A	emin	(Love	edux)Λ-	Loves	cx,	oved	(x))]	٧					
[[] Human (x) V Antmal (Loved(xx))] N [] Human (x) V - Loves (x, Loved(x))] V [Human (Love (x)) N Loves (Love(x), x)] [] Human (x) V Animal (Loved(x)) V t]] N [] Human (x) V - Loves (x, Loved(x)) V [] [] Human (x) V Animal (Loved(x)) V t]] N [] Human (x) V - Loves (x, Loved(x)) V [] [] Human (x) V Animal (Loved(x)) V Human (Love(x))] N [] Human (x) V Animal (Loved(x))	Ļ																		
[[THuman (x) V Animal Cloved(x)]] N [THuman (x) V - loves cs. Loved(x)]] V [Human (Love (x)) N Loves Clove(x), x)] [THuman (x) V Animal Cloved(x)) V [T] N [THuman (x) V - loves (x, Loved(x)) V [T] [THuman (x) V Animal Cloved(x) V Human Clover x))] N [THuman (x) V Animal Cloved(x)			L Mu	man (L	ove G	×))/	Lov	les C	Love	×), γ)]								
[Human (Love Cx)) N Loves C Love (x), x)] [7 Human (x) V Animal Cloved (x)) V t]] N[7 Human (x) V 7 Loves (x, Loved (x)) V [] [7 Human (x) V Animal Cloved (x) V Human Clover x)]] N[7 Human (x) V Animal Cloved (x)					۸	1	1	١٦.	T 1	1		, ,		,		\ ₁].			
[7 Human (x) V Animal Cloved(x)) V t]] N [7 Human (x) V 7 loves (x, Loved(x)) V [] [7 Human (x) V Animal Cloved(x) V Human Clovex x)]] N [7 Human (x) V Animal Cloved(x)		אורב	wsw (X) V I	און עירן	ا ا ا ا	ved (x)	אני	נחו	1 Copp any	CX)	ا ۱۰	oves c	y, Lo	vedic	רננ	V		
[7 Human (x) V Animal Cloved(x)) V t]] N [7 Human (x) V 7 loves (x, Loved(x)) V [] [7 Human (x) V Animal Cloved(x) V Human Clovex x)]] N [7 Human (x) V Animal Cloved(x)			Ī	Human	Lone	ر دی) / L	_oves	Cla	(x)	x).	1							
[7 Human (x7 V Anima) (Lovedox) V Human (Love xx))] 1 [7 Human (x) V Anima) (Lovedox)																			
	[-	Huma	א (א)	v An	amin	Llov	edix) V	t j] / [- Mu	man (x) V	7 4	ves (k,Lave	dex	, VE	: 1
	Γ_ L	1		<u>م</u> 1	. 1			u e	.1		,,,	-	u		۸.				
V Loves C Cove (SE)]	ורו	ገ <i>ሁ</i> የምትነ ርን	η V Ι	ן פמינו מל	C Lo	ne ol c	K) V (ไหพาลูก	CLA	le t x))11	\ 17	TURE) (K) .	v Anir	B (4	wd(x)		
	١,	Laves	Cleve	ر (العرا)]														
	ľ																		

