\$ 1.3.	Free & Bound variables.
	ye {xeel x254}.
	tree variable bound variable.
	Fre variable: - the truth value depends on which.
	- you can substitude a value for which.
	2) Pcy)
	bound variable: you cannot choose the value.
	(dummy variable) the variable could be replaced by the other one
	without changing the meaning.
	A variable as free ruless it is bound by.
	1) {x Eul } 2) \(\frac{1}{2} \)
	7220
	ef. atbéfaent aty 2s even?.
	* in this use, the only bound variable is a.
	a,b,y, are Free variables.
	O
	COGNEN/3x+yG{317 is even}}.
	bound variables: x, &
	Free variables: c, y.
	Z ik < L
	bound variable: 2
	Free variable: a, b, k, L.
	THE VARIABLE. W, B, R, C.
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Operation	tno sets A, B.
on	Their intersection ANB = { x x 6 A A x 6 B}.
Sers.	union AUB = {x x6A V x6B}.
	the difference A\B= {x x \(A \ A \ \ (x \color B) \}.
	i7 A= {x P(x) } B = {x Q(x) }.
	then AMB= {x P(x) AQ(x) }.
	AU13= {x Pun V Q (x) }.
	A \ B= Fx P(x) A TQ (x) \.
	, , , , , , , , , , , , , , , , , , , ,

if u is a universe
d is a discourse
m3={x6n/x4B}.
= { x x & B }.
e.f. A= {1.2,33. B= {2,4,63.
Anis = {23.
AUB={1,2,3,4,6}.
A1B = {1,3}.
(AUB) ((ANB) = { 1,3,4,6 }.
(A)B)U(B)A)= \$1,3,4,63. = Symmetric difference.
ADB.
In Venn deagram:
AVR.
7018.
ANB (ANB BNA)
to prove (AUB) \(ANB) = (A\B) U (B\A).
we will show they have some elements.
Assume that 206 (AUB) (LANB)
377 (ZECAUB))N 7 CZECANB))
277 ((x6A) V (x6B)) A7 ((x6A) A(x6B))
277 (LXGA) ~ (XEB)) / (~ (QGA) V ~ (QGB))
37 (x6AA x&A) U (xEBAX&A) U (xEBAX&B) U (XEAAX&B)
77 (XEBNX#A) V (X#BNXFA)
277 XE (ALB) V XECBLA)