10:- Az daibic}.
PSCA)z fp. faz, fbz. fcz, faibz, fbici, faici, faici, faici, lecture 20i | PSCA) x PSCA) | = | PSCA) | x | PSCA) | z 8x8 = 264 1Ak3 3x3 = 9. 29 2512. PSCA) KPSCA) = {(a,0), (a, fa?), (a, fb?), ----(faz.p), (faz.daz), - - - -R2 f (a1b) | a Sbf. 2? | PS(A) 2 { (Pip), (p, faz), (P, fbz), (-) -- - - -(faz, taz), (faz, faibz), (faz, faicz), (faz, faibicz), R2 9 (a16) / 19 Nb | 7,28. HW. SET BUILDER NOTATION. Semantres. Syntax

Condition.

Er5 = Let Az {2,2,3,4} AKA. P462 R1= {(a1b) | a ≤ b }. $= \{ (1, 1), (1, 1), (1, 3), (1, 4),$ = { (21), (2,2), (43), (44), (2,2), (2,2), (2,3), (2,4) (2,2), (2,3), (2,4), (3,1), (3,2), (3,3), (3,4), (313), (314), (414) 3. (4,2), (4,2), (4,3), (4,4)}. f2z f(a1b) | a7b} z ? HW. f2f(a1b) | a dividus b}. R32 & (a,b) | azb &. Hw Ruz ((a,b) | az b+13. Ps: 9(a1b) | a+b ≤33 HW. PROPERTIES OF RELATIONS. REPLEXIVE. Ha EA (a1a) ER. Az {2,2,3,4}. (2, L) ERN (2,2) ERN Er7 (3,3) ER N (4,4) ER. P462. R12 9 (2,2), (2,2)}. X Rz = { (2,2), (2,2), (3,3), (4,4)}. R3 = { (2,2), (2,2), (3,3), (4,4), (3,2), (3,2)} Ruz & ? X

> Az 923. AxAz 9 (2,2)3. |AxA|z |A|x (A|z 1x1z1. $|PS(AxA)|z |2|^{|AxA|} |2|^{2|x|} |2|^{2} |2|^{2}$.

= { 9, } (2,2)}}

Ha EA (a1a) ER. Az (2).

(2,2) ER

9 X.

Az {2,2}

le (cxive =?

Ha EA (aia) ER.

(1,1) ER 1 (212) ER.

A NA 2 & (2,2), (2,2), (2,2), (2,2) }. PS(AXA)2 & \$\frac{x}{4}, \frac{x}{(2,2)}?, \frac{x}{(2,2)}?, \frac{x}{(2,2)}?, \frac{x}{(2,2)}? f(2,2), (2,2)?, f(2,2), (2,2)?, f(2,2)?, f(2,2)?, f(2,2)? f (21), (2,2), (2,2), f (12), (1,2), (2,2)? { (1, H, (2, 1), (1,2)}, ((1,1), (2,1), (2,1)?, f(4,2), (1,2), (2,1), (2,2)}

Az & 1,2,3,4}

R2 f(a1b) | a2b}. 2 f(2,2), (2,2), (3,3), (4,4)} R= {(a1b) | (a1b) EP} = HW.

R-12 9 (a1b)) (b19) ERG 2 2 9 (b18)) (a1b) ERG.

 $R^{2} = \{(2,2), (2,2), (3,1)\}.$ Find R^{-1} . $R^{-1} = \{(2,2), (2,2), (2,3)\}.$

Symmeters. Haib EA if (aib) ER -7 (bia) ER.

Ex7: Az { 1, 2, 3, 4}.

P462
R12 { (11), (1,2), (2,1), (2,2), (3,4), (4,1), (4,4)}. X.

Rzz & ?

l32 ((2,1)}.

R4 2 & (2,2), (2,1), (2,1)}

Az & 18.

Ax A= & (1,1)}

PSCA) = S. P. S (41)33.

A 2 & 1, 2 }. Symmetoic.