	your writing partner			
· ====================================	CHAPTER-2 RELATIONS AND FUNCTION			
-				
	£x£xcI&£:-2.1			
(Q.1).	$(x_{/3} + 1, y - \frac{2}{3}) = (5_{/3}, \frac{1}{3})$			
	· · · Corresponding Terms must be 2/3 = 1/3			
	(corresponding Terms must be equal. $\Rightarrow x_{13} + 1 = 5,3$ and $y - 2,3 = 1/3$ $\Rightarrow (x + 3)_{13} = 5,3$ $y = 2/3 + 1/3$ y = 3/3			
-	y = 3/3			
	$\begin{array}{c} \chi + 3 = 5 \\ \chi = 2 \end{array}$ $\begin{array}{c} y = 1 \end{array}$			
n i				
(@.2).	n(A) = 3, $n(B) = 3$			
	$n(A.B) = n(A) \times n(B)$			
	= 3 x 3			
	$\Rightarrow n(A.B) = 9$			
	·. No. of elements in (A.B) = 9.			
_ (vs·3)·	$G = \{7,8\}$, $H = \{5,4,2\}$			
	$G_{\times}H = \{(7,5), (7,4), (7,2), (8,5), (8,4), (8,2)\}$			
	$H \times G = \{(5,7), (5,8), (4,7), (4,8), (2,7), (2,8)\}$			
- (0.4).	(ii). False.			
_	Correct statement: - If P= {m, n } and Q= {n, m}			
	Correct statement: - If $P = \{m, n\}$ and $Q = \{n, m\}$ then $P \times Q = \{(m, n), (m, m), (n, m), (n, n)\}$			
	(ii) Touco.			
	(''')\ T			
5	(iii). Toue.			
1				
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	1x1kc10x := Z-Z		=
(0.0)	:'n(A) (COB = 3 & x, y and z.	OH1 B	_
	distinct elements.		_
	$A = \{x, y, z\}$	A = V	
		E = 80	
	LAAVED CIECKE OV.	4 ² 2 3	
(0.10)	$n(A) \times n(A) = g$	4 = 10	
	$n^2(A) = g$		
	n(A) = 3		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	: 1,0,-4 au 3 diff	furent numbers	
	found in the product of A	, A .	
		en l	_
	$A = \{-1, 0, +1\}$	1	-
	$A \times A = \{1,0,-13, 1,0,-13\}$		_
	$= \frac{26}{6} \left(\frac{1}{1}, \frac{1}{$	2	ננ
	, (0, -1) , (-1, 1) , (-1,	0.70, 6-19-11}	
	18 (a. s.). (F. c) . (5.113 - 4 . 50	
	98.8.139	airm of	
	γa = 0 3	= 10 v via	
		3	
TC A. T	1. (a. d. (a. e) - 1 a. e a - (e, e) (a. D.)	(H.1)2=9 .9.	Na
			_
	\$ 0 5 0 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O.41. R= 5 (or 1)	V
	\$(o, v), (r, d), ((E, 3) 3 = 8	
		je nimorat by	
	25,4.53	E sauny	-
000			
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<u>.</u>	EXERCISE: - Z.Z
	f (° A)
Ø.1.	$x = 10$, $x = 10$, $x = 10$, $x = 3$ ($x, y \in A$).
	$x = 2$ $y = 2 \wedge 3 = 0$
	$x = 3$, $y = 3x3 = 2$ ($x \in A$)
-	X = 4 / X GA , Y & A)
-	$x = 5$, $y = 5 \times 3 = 13$ Course
-1	3 4
E Brown L.	5 5 7 5
-	8 9 10 9
	10
-	14
-	Domain = 18 1, 2, 3, 43
	Codomain = {1,2,3,,14}
	Rouge = 33,6,9,123
-	O .
	$R = \{(1,6),(2,7),(3,8)\}$
	Domain = {1,2,3}
	Range = £6,7,8}
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
_ 4.3.	$R = \Sigma(1,4),(1,6),(2,9),(3,4),(3,6),(5,4),(5,6)$
	$R = \{(x, y): x = y + 2, 2\langle y < 6\}$
	$R = \{(5,3),(6,4),(7,5)\}$
	Domain = { 5, 6, 7}
	Range = {3,4,5}
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	,	7 7	
		EXEKCINE:-2.3	/ ;
		(14.1) (17.1)	
	Ø.1.	(i), \(\(\(\(\(\(\(\(\)\\\\\\\\\\\\\\\\\\\	-
	,,,,,,	V	
		Domain = {2,5,8,11,14,17}	
			6
		Fange = 3.18	
		ii). Yes,	
		Domain = { 2,4,6,8,10,12,14}	
		Kange = £1,2,3,4,5,6,73	_
		1314.	8.
	(in). No. Because there is no affinite relation	
	N 2 K	between x, y and x & roo of successing x.	- 10
		5 = ((8.A) s = JN)	
	Q. 2.	Cis. Jourain = & R	0 1
		Cis. Jourain = & R. Rauge = [-00,0)	E. 3
		(ii). Jonain = =================================	1
1		Range = [-3,37	- 4
17		U	
H	VQ.3. (is. +(0): (i. 0. when x=0)	
		· to = 2 × 0 - 5 = -5	_ `
	(ii), \$(7)	- 19
7		$47) = 2 \times 7 - 5 = 14 - 5 = 9$	
		iii). \$ (-3)	/
		+c3> = 2×(-3)-5 = -6 - 5 = -11	
	vg. 4).	(ii). ±(0) = [+(c) = 9c/2 +32]	
1		$\pm_{(0)} = 9 \times 0 + 32 = 32$	-
1	000,		
	PED XELL	RO VAIBHAY 😎	
1.1		No. of the Control of	10 10 10 10 10 10

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(ii) _ t (28)

J(28) = 9×28 + 32

 $-9 \times 5.6 + 32$

= 50.4 + 32 = 82.4

(iii), + (-10) -2

t(-10) = 9 x (-10) + 32

= -18 + 32

= 14

("ir). tice = 212

 $\frac{212 = 9c + 32}{5}$

212-32= 90/5

 $\frac{20}{180 \times 5} = C \Rightarrow C = 100$

(a5) (i). Kango = (B-∞,07

(iii). Range = [2,00).

Ciw Kange = 0