$(\mathcal{I})$		
	10: 1113181121286	
= 8+24+15		
[-47]	- 1-1-1-1 VIOLUT	10) - 1000
(x+7)2	+ 19 , for n= 8	1 3417 31161
Solution:	THE SECTION AS	
7x+8(	x+7)2+19	
Put n= 8		
7(8) + 8(	8-17)2+19	
= 56+8(1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
= 56+8(7		
= 56 + 1800	0+19 119 119	
1 = 1875		
		Campled
3 9 (x-4)2-9.	x+6(x+4) for x=-2	
Edition		
	9n+ 6(n+4)	
Put n = -2		y Cal Hard
9((-2)-4)	2-9(-2)+6(-2+4)	
= 9(-6)2+	18+6(2)	1111111111111
= 9(36)+		
- 324+30		( was Don't
= 354		
3) (x+2)2-(x-2)2+	6x for x=4/8	
		177
80 halion= (x+2)2 - C	x-22+6x	
Lit		
Put n= 4/5	115-2)2+6(4/5)	
(4/5 +2)2 -C	15.2) (8(18)	
	1	Log de W. J
= (4+10)2	$-(9-10)^{2}+(39)$	
\ 5 /	5 ( )	and the state of t
^ `		
= 114 72 -	$\left(\frac{-6}{6}\right)^2 + \left(\frac{29}{6}\right)^2$	
(5)	(5) (5)	

3
= 196 - 36 + 24 25 25 5
= 160 + 160 25
= 320 25
of Uniables &
i) 2xy2 +3x2y - 4xy +y-6 x=1, y=2
2 my2 + 3 m2y - 4 my + 4 - 6  Put n=1, y=2
$\frac{2(1)(2)^{2} + 3(1)^{2}(2) - 4(1)(2) + 2 - 6}{= 2(4) + 3(2) - 4(2) - 4}$ $= 8 + 6 - 8 - 4$
T=2-4
(ii) $y^5 + 3y^5 - 6y^3 + 4y^2 + 6y^2$ y = -3
Solutioner  Ny3+3ny3-6n3y3+4n2y+6n2  Put n=-21 y=-3
$-2(-3)^{3} + 3(-2)(-3)^{3} - 6(-2)^{3}(-3)^{3} + 4(-2)^{2}(-3) + 6(-2)^{3}$ $-2(-27) + 3(-2)(-27) - 6(-8)(-27) + 4(4)(-3) + 6(4)$ $= 54 + -6(-27) + 48(-27) + 16(-3) + 24$
= 54+162-1296-48+24

111) Mx + 3y + 5xy2 - 5x2y + 11
$x = -\frac{1}{2}$ , $y = -1$
Solutions
Mn+3y+5 ny2-5n2y+11
Put x=1/2 and y=-1
$\frac{1}{2}(-\frac{1}{2}) + 3(-1) + 5(-\frac{1}{2})(-1)^2 - 5(-\frac{1}{2})(-1) + 11$
2(-1) b-3-5 + 5 + 11
2 4
= -8-12-10+5+44
4
= -30+49
4
= 19
4
iv) 6yz+ 11y-1y2 + 22y + 72y2
y = -2, $z = 2/2$
Solution:
But 11 = 2 and 7 = 1/2 + 22y2
Put $y = -2$ , and $2 = \frac{1}{2}$ $6(-\frac{1}{2})(\frac{1}{2}) + 11(-2) - 1(-1)^{2}(\frac{1}{2}) + (\frac{1}{2})^{2}(-2) + (\frac{1}{2})^{2}(-2)^{2}$
=-6-22-1 -2+1
$= -29 - \frac{1}{2}$
= -2.9.5
10. 10:- Simplify each expression:
(1) (5+7x) - (7x+5)
Solutione
(S+7n) (1x+5)
- 8+7n-7n-5

	4-11-60
(ii) 3(7x+1)-Mx+6)	
Colution or	and to be
3(7n+1)-(4n+6)	
= 212+3-42-6	1, 1
= 21n - 4n + 3 - 6	
$=17\chi-3$	Party.
"ii) J(9+4x)2 - (3+2x)2	
V(9+4x)2-(3+2x)	
= (9+4m) - (3+2m)2	
= 9+4n - (9-12n+4n2)	
= 9/t 4n-9/+12n-4n2	
-4n2 +12n +4n	
[= -4n2 +16n]	
iv) 3x-5[7(x+4)-7]	
Calution or	
3n-5[7(n+4)-7]	4-1-
=3n-5(7n+28-7)	
= 3x-35x-140+35	
= -32n-105	
V) 2n(n-3)-3(n-3)	
n2-9	
Solutions	- V
2n(n-3) -3(n-3)	
72-9	
=(2n-3)(n-3)	101 006
= (1/3)(1/3)	
(2. 2) ( M/3) ( O M/2). ( C)	1. 27.71
= (2x-3)(x+3)	Company of the
- 2x-3	
( 71+3	1
	1

(6)	111 - 111 - 15 C
vi) 1-6x1	picated.
6 N	
Solution	
1-6x1	
6n	The state of the s
= +6x	
6×	
= 1	1/2/2/2 1\ Co
Vii) 2.1-4x1	La Property
16	india.
Solutions-	
2.1-42	
= ½. Kn	
16 4/2	
$\int = \frac{1}{2} \chi$	
2	
	1 7- 1 - 1 (1)
Viii) (2n-3)2 - (5n-3) (5n+3)	servitor is
Solution &	
(5x-3)2- (5x-3)(5x+3)	
1, 2 12 +9 (25x2+15x-15x-9)	
= 4x2-12x+9-25x2515x+15x+9	,
- 4x= \$12x+9-25x2+9	
= 42-25 N2 \$ 12 mot 18	
= -21 12 71 +18	
=	
ix) (Ix +1) + (x-1)2+(x2-1)	
0 1 16 -	
( [x + 1)2+ (x-1)2+ (x2-1)	
2 x + 2 \ \ 1 + x2 + 1 - x + x2 71	
- 25x+1+x2+x3	
- 2x2 + 2\n +1	

x) x° +7x2 - (1+3)2 +8x	- / 101-2 170
X	
Solution n° +7n2 - (1+3)2+8n	717101
nº +12 - (1+3) +6 N	
$= 1 + 7n^2 - (4)^2 + 8n$	
= 1+7x2 - 16+8x	
= 7n2+8n -16+1	
$= 7n^2 + 8n - 15$	
$(\frac{5x^{-2}y^{2}}{2^{4}})^{-2}$	
740	I h i li l
Solutions	21
$\left(\frac{5x^2y^2}{2^4}\right)^2$	
$= \left(\frac{5y^2}{2^{1/2}}\right)^2$	
7224)	4
- 25y" ny28	
7473	
·	
$XIII) (2n^{-1} + 3n^{-2})^{-1}$	
Calution o-	
$(2x^{2}+3x^{-2})^{-1}$	pr 1812 c
/ 1	
221 +322	
(2 x +3 k	
= 1	
2/2+3/22	
[= X2	
27173	
(iii) (5x1 +24) -2	
(iii) (5x-1+2y)-2 Soludion:	
(C = 1 12 11 )-2	
(5x-1 +2y)-2	
= $($ $($ $($ $($ $($ $($ $($ $($ $($ $($	12(5/ )(11/2 12 2
Sn729 (3/n)	+2(5/21)(2y) +2y2

W) Sint 0 + 3 sin 0 - 4
Solutions
Sin-0+3sin0-4
- Sin 0 + 4 sin 0 - 1 Sin 0 - 4
= 5m 0 (Sin0+4) #1 (Sin0+4)
[= (sin0-1)(sin0+4)
V) 712 + 13x - 168
Solutions
2+13x=163.
= 32 + 21x - 8x - 168
$= \chi(\chi + 21) - 8(\chi + 21)$
1 = (n-8) Cn+21
south the second se
vi) x9x+10
Solution:
n=-9n=10
8 = n2-10n+n-10
= x(n-10)+1(n-10)
=(n+1)(n-10)
= E Charles
ano.72 Properties Of Real Numbers:
O Commulative Property of addition:
Pa. 1+5 = 5+1 = 6
eg. 1+5 = 5+1 = 6  © Commulative Property of Multiplication:  eg: 1x5 = 5x1 = 5  eg: 1x5 = 5x1 = 5
$30 = 145 = 5 \times 1 = 5$
- 1:00 Property of addition:
3) Associative Property of addition:  eq: 4+(3+2) = 3+(4+2) = 9'
2 2 1 1 2 Proposti Of Mutiplication:
9) Associative Property of Marinellarions.
9) Associative Property of Mutiplication:  ege 4x(3x2) = 3x(4x2) = 24
(5) Distributive Propertye- eq 3(9+4) = 3(9)+3(4) = 27+12
eg 3(4+4) = 3(4)+3(4)= 211
= 39