r किल्का: ~ (चुलका: ) (1) (2x - 10) 10 GO Tary TOO T(n+1) = 10 Cm. (2x4) 10-1 (- 13) 1 (5x + (x) 10 Go toly (0) = (-1) n. 10 cm, 210-n, 20-5n Triti = 10 Cn (2x) 10-m. (6x) m = 100 n. 2 . n 1 . 10 - 2m -mariana), x20-811 x0 magarol, 10-27 xe : +(#+1) 2 (-1) 4. 10 cq. 2 : +(s+1) = 10cs. 210 -8 1 2 13440 (Ans.) 2 28 (Ani) ( \( \frac{\fir}{\frac{\f{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\f{\frac{\frac{\frac{\ T(n+1) = 10 Cn. (43) 10-1 (4x) 10  $(1)^{2} (x^{2}-2+\frac{1}{x^{2}})^{6} = (x^{2}-2\cdot x\cdot \frac{1}{x}+\frac{1}{x^{2}})^{6}$ 210 Cm. 10 x 40-5n y 5n-30. = (x-x)12 Go for 10, T(m+1) = 12 cm, x 12-1 (-1x) -41019 ain , 24-30 70 = 12 en . X 12 - 27 (-1) n :. T(6+1) = 10C6. 16. x40-5x6 -more ono , x12-27 2 x0 1. n 26. = 105 x10 (ns.) : T(6+1) = 1206. x 12-12. (-1)6 ® (+4) तत एं स्ट्रिक्टं प्रविधिकांत) 2924. (Ansi) 21 TH ONG = 22 TH ONG  $(1+x)^{p}(1+\frac{1}{x})^{q}$ 701, 44c20. x20 244c21 x21 = (1+x) P(-1+x)9 (x-x) co sea cein ximu soini = (1+x) P+9 60 for for T(n+1) = P+9 cm. xn. 1 : none = 2n +1 = n+1 an arg1 whoma 1 PG1 = P+9 Cm. x n-9 : T(n+1)'= 2mon - (x)2n-m (-1x)n ·morganol, xn-9=x0 2 - 2n; . (-1) :. T(9+1) = P+9cq = [P+4] (Ans.) = 2m. nid 1.3.5. ... (2n-1) [: 2n! = 2n.n! Olmevas  $\frac{n!}{n!}$   $\times$   $(-2)^n$  Linamet n!Betacor

(a) 
$$(3+\frac{\chi}{2})^n$$
 (b)  $(3)^{n-n}$  ( $\chi$ )  $(3)^{n-n}$   $(3)^{n-n}$  ( $\chi$ )  $(3)^{n-n}$   $(3)^{n-n}$  ( $\chi$ )  $(3)^{n-n}$  ( $\chi$ )  $(3)^{n-n}$  ( $\chi$ )  $(3)^{n-n}$   $(3)^{n-n}$  ( $\chi$ )  $(3)^{n-n}$   $(3)^$ 

-moting origin, 1000, 210-3, K3 = 100, 210-1, K1

: K 2 \( \frac{1}{\sqrt{3}} \) (Ans.)

(1+x) 60 fayforo, Tinti) = ncn xn (0; T(n+3) = n cn+2 x n+2 -morganist, men = nen+2  $\frac{n_{cn+2}}{n_{cn}} = 1$  $\frac{n-m}{n+2} = 1$ ol, n-n=n+0 :, 2n = n-2 (showed). 8 (2x + 2 )19 (3 toylogo, T(n+1) = 19 Cn (2x") 19-7 (3) m = 19Cn. 219-7, 3h, x19-3h Gat (1+5) = 19c +1 (2x2) 19-4-1 (3x)+1 = 19 Cn+1 2 18-1 31+1 235-37 -margario, 19cm+1.218-n 3n+1 19 19-n 3n -di, 19cn+1=219-n-18+n3n-n-1 of,  $\frac{19-m}{n+1} = \frac{2}{3}$ on, 57-37 = 27+2 -01. ST = 55. : n = 11 · (Ansi)

10 (a+3x), cé lañelale - inalitate , (6) (x+a), (4 feñtos \_unitados) 3-10 ont, n=729... 20 and, ne, an-1. 3x = 21 bx 20 and, no xn-1, a1 = 7290 or, nan. 3x= 21 bx [:an=b] -din xm. a 27290 -01, 2n = 7a ··· on, n. 729. a 2 7290 60 on ne ne an-2 (3x) = 189 bx -01, n(n-1) an , gir = 189 brr 71, na=10x...  $-11, \frac{n(n-1)}{2}, \frac{1}{4}$ 60 90, nc. x -2 ~= 30375 -11,  $\frac{n(n-1)}{n}$ ,  $\frac{49}{4}$  =  $\frac{21}{4}$ n(n-1)  $\frac{x^n}{x^n}$   $a^n = 30375$ 74. (n-1)7 = 3  $\frac{n(n-1)}{2} \cdot \frac{x^n}{x^n} \cdot \frac{(10)!}{n} = 30.375$ 7n-7=6n of,  $\frac{n(n-1)}{2}$ ,  $\frac{100x^2}{2} = \frac{125}{3}$ त्त्रम, म एंड प्रमा (1) पर त्निमां कार ,  $-01, \frac{(n-1)4}{3} = \frac{5}{3}$ 2n 27a  $1.0 = \frac{14}{7} = 2$ on, 12n-12210n cousta. o es. u ca count () se catalo ous CAY, W to am a se majaialmapolis one, 26 = 729 on, 27 26 1X 23 1 to =128 monato, 2 Qu'in de Lum. 11 yi atalà, : faction 022, 6=128 Go: n=7 (ms.) a 2 10 x 3 :. 0 = 5 . (Ans.)

$$\begin{array}{l} (1+x) \frac{1}{3} (a^{1}b^{2}x)^{12} \\ = (1+x) \frac{1}{3} (a^{1}b^{2}x)^{12} \\ = (1+x) \frac{1}{3} (a^{1}b^{2}x)^{12} \\ = (1+x) \frac{1}{3} (a^{1}b^{2}x)^{12} \\ + \frac{12}{2} c_{1} \cdot a^{12} \cdot \frac{1}{3} \cdot (-bx)^{1} + \frac{12}{2} c_{2} \cdot a^{12} \cdot \frac{1}{3} \cdot (-bx)^{8} + \cdots \frac{1}{3} \\ + \frac{12}{2} c_{1} \cdot a^{12} \cdot \frac{1}{3} \cdot (-bx)^{1} + \frac{12}{2} c_{2} \cdot a^{12} \cdot \frac{1}{3} \cdot (-bx)^{8} + \cdots \frac{1}{3} \\ - \frac{12}{3} c_{2} \cdot a^{3} \cdot b^{8} = 12 c_{1} \cdot a^{5} \cdot b^{7} \\ = (1-x) \frac{1}{3} (1-x)^{7} \cdot (1+x)^{7} \\ = (1-x) \frac{1}{3} (1+x)^{7} \cdot (1+x)^{7} \cdot (1+x)^{7} \\ = (1-x) \frac{1}{3} (1+x)^{7} \cdot (1+x)^$$

(1+x) 24 (10 tay to 10, 10, 11) = 24 cm.

T(n+1) = 24 cm.

To: T(n+2) = 24 cm.

To: 24 cm.

25 cm.

26 cm.

26 cm.

27 cm.

28 cm.

29 cm.

20, 24 cm.

20, 24 cm. T(n+1) = 24cm, xm (n+2) = 24 Cm+1. xm+1 370: 24cm+1 24 M, 24-1 = 4 or, 24-n = 4n+4 : grand on self (5 69: 6);  $\frac{20}{24cn} = \frac{1}{4}$ of, 24-17 = 1 -d. 96-47=+1 3 .: - grander with gette (20, 21); : 5 For6 - ouvor 20 For 21; (Ans) (x+1)20 (70 taytogo, T(n-1)+1 = 20 Cn-1. K 20-n+1 (1) = 20 c n+3. x 20-71-3 -mongano, 200n-1 = 200n+3 -n,  $\frac{20-n+1}{n+3}=1$ 71, 21-n=n+3 Betacor or, 2n=18 (in=9 (Ans.)

(17) (23-5)12 (10 taly to(0), T(n+1) = 12cn. (23)12-7 (- 5x) 2 12 Cn , 5", x 36-5" (-1)" -410 (Havis) , 38-84 = ×11 -n, 5n=25 1. x11 ( 10 - 12 cs , 58 (-1) 5 2 - 12Cs 55 (Ams.) (8) (x + x) 10 dia -rices ( talia -rices ) Have new 1 tel : mg on 1 = 7 + 1 2 10 +1 26 th. (Ams.)

Olmevas AM

Linamet