## Materia: Calculo Integral

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Equipo Verde

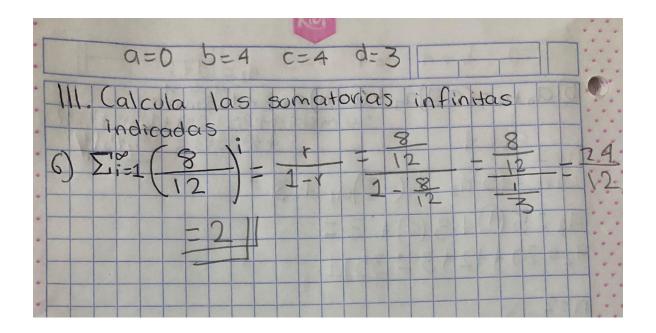
Numero de control: 19070443

1) 1 b (n+2) + c (n+3) + d (n+4) } sum a = 325
4(1+2)+4(1+3)+3(1+4)=43
4(2+2)+4(2+3)+3(2+4)=54
4(3+2) + 4(3-3) + 3(3+4) = 65 4(4+2) + 4(4+3) + 3(4+4) = 76
919 + 21 + 1 (S+3) + 3 (5+4) = 57
48 + 54 + 65 + 76 + 87 = 325
19 9 19 19 19 19 19 19 19 19 19 19 19 19
2) (bin + c+h + din) , Suma = 20.755
4+1+4+1+3+7=5.76 5.76+4.5+3.88+3.93+3.78
= 20.755(
4+2 + ++2 + 3+2 = 4.5
3 9 5
913 + 4+3 + 3+2 = 3.38
419 + 14 + 3 + 4 = 3.93
9+5+9+5+3+5=3.785
4 10

3)  $\frac{1}{2}bn^{1.1} + cn^{1.2} + \frac{1}{2}n^{1.3}$ , Suma =  $\frac{2}{19}$ ,  $\frac{3}{14}$   $4(1)^{1.1} + 4(1)^{1.2} + \frac{3}{12}(1)^{1.3} = \frac{4}{11}$   $4(1) + \frac{3}{12}$  $4(2)^{1.1} + 4(2)^{1.2} + \frac{3}{2}(2)^{1.3} = \frac{2}{12}$ ,  $\frac{1}{12}$   $\frac{1}$ 

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a=0,b=4,c=4,d=3
  a= d+1
  Q1 = 3+1
  a, =4
  Aan = (6+1) an+ (c+1) n + 8, Suma = 24,624
  a++=(4+1)a+(4+1)1+3=
  a= 5(4)+5(1)+3=20+5+3
  92=28
 n=2
  a_2 + 1 = (4+1)a_2 + (4+1)2 + 3 =
a_3 = 5(28) + 5(2) + 3 = 140 + 10 + 3 =
  az = 153
n=3
 as+1 = (4+1)a, + (4+1)3+3=
 a+= 5(153)+5(3)+3=765+15+3
 Q4= 783
n=4
a++=(4+1)a+ (4+1)4+3=
a_9 = 5(783) + 5(4) + 3 = 3,915 + 20 + 3
a= 3,938
n=5
 as+1=(4+1)as+(4+1)5+3=
ac = 5(3,938)+5(5)+3=19,690+25+3=
ac = 19,718
a1+a2+a3+a4+a5+a6=++28+153+783+3938+19,718
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a=0, b=4 c=4 d=3 5) an+1 = (C+1)an + (C+n)an + nd, soma Sumat 4+35+251+1515+7587 91 = 4 +30,363 = 39,7551 + +3(4)+ a2+1 = 5a2 + 2a2 03=5(35)+2(35)+6= 175+ 70+6=25111 93+1 = 503 + +9= 9 = 5 (25) + 1 (25) + 9= 9 = 1/255 + 251 + 9 = 1/515 0ag +17 a4+1 = 594+ as = 7,575+12= 7,58 5 (7,587) + (-1) (7,587)



7) 
$$\sum_{i=1}^{\infty} (a+b+1) (b+d+1)^{i} = \sum_{i=1}^{\infty} (0+4+1) (4+3+1)^{i} = \sum_{i=1}^{\infty} (5) (8)^{i} = \sum_{i=1}^{\infty} (5) (8)^{i} = \sum_{i=1}^{\infty} (8)^{i} = \sum_{i=1}$$

## a=0, b=4, c=4, d=3

IV. - Una polota se déjacaer des de una altura H=50 (a+b+c+d+1)m, si dispoés de cada rebote la altura máxima que alcanza es 86 to de 100 su altora máxima anterior, determina la distancia total que recorre.

H=50(0+4+4+3+1)m H=50(12)m H=600m

 $\frac{86+6}{100} = \frac{86+3}{100} = \frac{89}{100}$ 

8)  $H_{TOT} = H + 2H \left(\frac{r}{1-r}\right) = \frac{89}{1-\frac{89}{100}}$ 

HTOT = 600 + 1200 (8,900)

HTOT = 10,309.0909 m

Elle 1 - d a = 0, b = 4, c = 4, d=3 9)(a+c+S+1)  $\int_{b+1}^{b+2} \frac{Sen(x)}{x} dx = \frac{1}{(a+c+S+1)} \int_{b+1}^{b+2} \frac{Sen(x)}{x} dx = \frac{1}{(a+c+S+1)} \int_{b+1}^{b+2} \frac{Sen(x)}{(a+c+S+1)} dx = \frac{1}{(a+c+S+1)} \int_{b+1}^{b+2} \frac{Sen(x)}{(a+c+S+1$  $8 \int_{5}^{6} \frac{\sum_{n=1}^{\infty} (-1)^{n+1} x^{2n-1}}{(2n-1)!} dx$  $\frac{(-1)^{1+1} \times 2(1)-1}{(2(1)-1)!} + \frac{(-1)^{2+1} \times 2(2)-1}{(2(2)-1)!} + \frac{(-1)^{3+1} \times 2(3)-1}{(2(3)-1)!} \\
\frac{(-1)^{4+1} \times 2(4)-1}{(2(4)-1)!} + \frac{(-1)^{5+1} \times 2(3)-1}{(2(5)-1)!} = \frac{(-1)^{5+1} \times 2(3)-1}{(2(5)-1)!}$  $\begin{cases} \frac{1}{x} \left( x - \frac{x^3}{31} + \frac{x^5}{51} - \frac{x^7}{71} + \frac{x^9}{91} \right) dx = \frac{1}{31} + \frac{1}{31} +$  $\begin{cases} \int_{5}^{6} \left(1 - \frac{x^{2}}{3!} + \frac{x^{4}}{5!} - \frac{x^{6}}{7!} + \frac{x^{8}}{9!}\right) dx = \frac{x - x^{3}}{3(3!)} + \frac{x^{5}}{5(5!)} - \frac{x^{7}}{7(7!)} + \frac{x^{9}}{9(9!)} = \frac{x^{7}}{3(3!)} + \frac{x^{9}}{5(5!)} + \frac{x^{9}}{7(7!)} + \frac{x^{9}}{9(9!)} = \frac{x^{9}}{3(3!)} + \frac{x^{9}}{5(5!)} + \frac{x^{9}}{7(7!)} + \frac{x^{9}}{9(9!)} = \frac{x^{9}}{7(7!)} + \frac{x^{9}}{7(7!$  $86 - \frac{6^3}{3(3)} + \frac{6^5}{5(5)} - \frac{6^7}{7(7!)} + \frac{6^9}{9(9!)} - \left(5 - \frac{5^3}{3(3!)} + \frac{5^5}{5(5!)} - \frac{5^7}{7(7!)} + \frac{5^9}{9(9!)}\right) =$ = 3.708

