

Exámen 4.º Período

1R/ $b_1 = 0,25$

$b_2 = 4b_{2-1} \rightarrow 4 \times 0,25 = 1$

$b_3 = 4$

$b_4 = 16$

$b_5 = 64$

$b_6 = 256$

Es b

2R/ $a_1 = 25$

$a_{k+1} = a_k + 4 = 29$

$a_{1+1=2} \rightarrow a_2 = a_1 + 4$

$a_3 = 33$

$a_4 = 37$

$a_5 = 41$

3R/ $a_1 = +\frac{2}{3}$

$a_2 = a_{1+1=2} = a_1 \cdot \frac{1}{2} = \frac{1}{6}$

$a_3 = -\frac{1}{3}$

$a_4 = -\frac{5}{6}$

4R/ $a_1 = 4$ $r = 3$ $a_2 = 3 \cdot 4 = 12$

$a_n = a_1 \cdot r^{n-1}$ $4 \cdot 3^{n-1}$

5R/ $\frac{2}{1}, \frac{5}{2}, \frac{8}{3}, \frac{11}{4}, \frac{14}{5}, \frac{17}{6}, \frac{20}{7}, \frac{23}{8}, \frac{26}{9}$

$= \frac{60977}{2520}$

$$0,5 + 0,25 + 0,16 + 0,125 + 0,1 + 0,083$$
$$= 1,218$$

Por aproximado 1,22

$$7R/7 + \frac{2}{7} + \frac{4}{49} + \frac{8}{343} + \frac{16}{2401}$$

$$= \frac{5355}{2401}$$

8R

$$6.950.050 - 5.150.050$$

$$= 1.800.000$$

$$9R \frac{7(4^7 - 1)}{4 - 1} = \frac{16383}{3} = 5,461$$

$$10R \frac{\frac{3}{5} \left(\frac{5^8}{3} - 1 \right)}{\frac{5}{3} - 1} \quad \frac{0,6(2,666^8 - 1)}{2,666 - 1}$$

$$= 918,728$$