

Examen

$$25 \quad 25^{k+1}$$

1

$$b_1 = 0,25$$

$$b_2 = 0,25 \cdot 4 = 1$$

$$b_3 = 1 \cdot 4 = 4$$

$$b_4 = 4 \cdot 4 = 16$$

$$b_5 = 16 \cdot 4 = 64$$

$$b_6 = 64 \cdot 4 = 256$$

1

64

4

256

4

4

$$4 \cdot 3^{n-1}$$

$$\text{razón} = 3$$

$$n=1$$

11

4

5

$$\begin{array}{r} 3 \cdot 9 - 1 \\ 9 \end{array}$$

$$\begin{array}{r} 27 - 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 26 \\ 9 \end{array}$$

$$\begin{array}{r} 60911 \\ \hline 2520 \end{array}$$

$$\begin{array}{r} 1 \\ 2 \end{array} + \begin{array}{r} 14 \\ 5 \end{array}$$

$$\begin{array}{r} 5 \\ 2 \end{array} + \begin{array}{r} 17 \\ 6 \end{array}$$

$$\begin{array}{r} 8 \\ 3 \end{array} + \begin{array}{r} 20 \\ 7 \end{array}$$

$$\begin{array}{r} 11 \\ 4 \end{array} + \begin{array}{r} 23 \\ 8 \end{array}$$

6

$$\frac{1}{2}$$

$$0,5$$

$$0,25$$

$$0,16$$

$$0,125$$

$$0,1$$

$$0,083$$

$$\frac{1}{2}$$

$$\frac{1}{4}$$

$$\frac{1}{6}$$

$$\frac{1}{8}$$

$$\frac{1}{10}$$

$$\frac{1}{12}$$

$$\begin{array}{r} 11 \\ 1,225 \end{array}$$

7

$$1 + \frac{2}{7} + \frac{4}{49} + \frac{8}{343} + \frac{16}{2401} = \frac{3355}{2401}$$

8

$$\begin{array}{r} 6950050 \\ 5150050 \\ \hline 1800000 \end{array}$$

1800000

9

$$\frac{1 \cdot (4^7 - 1)}{4 - 1}$$

$$\frac{1 \cdot (16384 - 1)}{4 - 1}$$

$$\frac{1 \cdot 16383}{3}$$

$$\frac{16383}{3} = 5461 = 57$$

2

$$a_1 = 25, a_{k+1} = a_k + 3$$

$$a_2 = a_1 + 3$$

$$a_3 = a_2 + 3$$

25, 28, 31, 34, 37, 40

3

$$\frac{2}{3} \cdot 1K \quad \frac{1}{2} \quad \frac{2}{3} \cdot 1$$

$$\frac{2}{3} \quad \frac{1}{6} \quad \frac{1}{3}$$