

Evaluación

$$1 = b_1 = 0,25$$

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

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

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

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

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

$$2 = a_1 = 25, a_{k+1} = a_k + 4$$

$$a_n = a_2 = a_1 + 4$$

$$a_n = a_3 = a_2 + 4$$

$$a_n = 25, 29, 33, 37, 41$$

$$3 = a_1 = +\frac{2}{3}, a_{k+1} = a_k - \frac{1}{2}$$

$$\frac{2}{3} \cdot k - \frac{1}{2} - \frac{2}{3} =$$

$$a = +\frac{2}{3}$$

$$4 = a_1 = 4, r = 3$$

$$a \cdot r_{n-1}$$

$$a_1 = a \cdot 3^{n-1}$$

$$a_1 = 12^{1-1} = 12$$

$$a_2 = 4 \cdot 3^{1-2} = 1$$

$$a_2 = 12^1$$

$$a_2 = 12$$

$$5 = \sum_{n=1}^9 \frac{6n-1}{n} = \frac{3 \cdot 1 - 1}{1} + \frac{3 \cdot 2 - 1}{2} + \frac{3 \cdot 3 - 1}{3} + \frac{3 \cdot 4 - 1}{4} + \frac{3 \cdot 5 - 1}{5} + \frac{3 \cdot 6 - 1}{6} + \frac{3 \cdot 7 - 1}{7} + \frac{3 \cdot 8 - 1}{8} + \frac{3 \cdot 9 - 1}{9} = \frac{2+1}{2} + \frac{1+1}{3} + \frac{12+1}{4} + \frac{15-1}{5} + \frac{18-1}{6} = \frac{21-1}{3} + \frac{17-1}{4} = \frac{215}{2} + \frac{8}{3} + \frac{11}{4} + \frac{14}{5} + \frac{17}{6} + \frac{20}{7} + \frac{23}{8} + \frac{26}{9} = 60$$

$$6 = \sum_{n=1}^6 \frac{1}{2^n}$$

$$\frac{1}{2 \times 1} = \frac{1}{2} = 0,5$$

$$\frac{1}{2 \times 2} = \frac{1}{4} = 0,25 \quad + = 1,218 = 1,22$$

$$\frac{1}{2 \times 3} = \frac{1}{6} = 0,16$$

$$\frac{1}{2 \times 4} = \frac{1}{8} = 0,125$$

$$\frac{1}{2 \times 5} = \frac{1}{10} = 0,1$$

$$\frac{1}{2 \times 6} = \frac{1}{12} = 0,083$$

$$7 = \sum_{n=1}^5 \left(\frac{2}{7}\right)^{n-1}$$

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

$$8 = 6.950.050$$

$$\frac{5.150.050}{1.800.000}$$

$$92 \quad S_n = \frac{a(4^n - 1)}{4 - 1} = 5.461$$

$$S_1 = \frac{1(4^1 - 1)}{4 - 1} = 1 \quad S_6 = \frac{1(4^6 - 1)}{4 - 1} = 1.365$$

$$S_2 = \frac{1(4^2 - 1)}{4 - 1} = 2,3 \quad S_7 = \frac{1(4^7 - 1)}{4 - 1} = 5.461$$

$$S_3 = \frac{1(4^3 - 1)}{4 - 1} = 21$$

$$S_4 = \frac{1(4^4 - 1)}{4 - 1} = 85$$

$$S_5 = \frac{1(4^5 - 1)}{4 - 1} = 341$$