

ⓑ 10, 4, -2, -8, -14

a) Aritmética =  $y - y - 1$  - Diferencia de 5

b) Aritmética =  $y + 6$  Diferencia de 6

c) No es aritmética

d) 2.77

e) 75 es aritmética

# SOLUCIÓN

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a)  $A_n = 4 - n$

$$4 - 1 = 3$$

$$4 - 2 = 2$$

$$4 - 3 = 1$$

$$4 - 4 = 0$$

$$4 - 5 = -1$$

No es aritmética

b)  $A_n = \frac{2}{n+2}$

$$\frac{2}{1+2} = 0,67$$

$$\frac{2}{4+2} = 0,3$$

No es aritmética

$$\frac{2}{2+2} = 0,5$$

$$\frac{2}{5+2} = 0,28$$

$$\frac{2}{3+2} = 0,4$$

c)  $a_n = -n + 8$

$$1 + 7$$

$$2 + 6$$

$$3 + 5$$

$$4 + 4$$

$$5 + 3$$

No es aritmética

d)  $a_n = n + \frac{n}{2}$

$$1 + \frac{1}{2} = 1,5$$

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

$$3 + \frac{3}{2} = 4,5$$

$$4 + \frac{4}{2} = 6$$

$$5 + \frac{5}{2} = 7,5$$

Si es Aritmética

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$$a = 5^1 - 5^{1-1} = 4 \quad a = 5^2 - 5^{2-1} = 20$$

$$a = 5^3 - 5^{3-1} = 100 \quad a = 5^4 - 5^{4-1} = 500$$

$$a = 5^5 - 5^{5-1} = 12500 \quad a = 5^6 - 5^{6-1} = 62500$$

$$a = 5^7 - 5^{7-1} = 312500 \quad a = 5^8 - 5^{8-1} = 1562500$$

$$a = 5^{10} - 5^{10-1} = 10125000 = 34576124$$

$$a = \frac{1}{1(1+1)(1+2)} = 0,166$$

$$a = \frac{1}{2(2+1)(2+2)} = 0,083$$

$$a = \frac{1}{3(3+1)(3+2)} = 0,011$$

$$a = \frac{1}{4(4+1)(4+2)} = 0,0083$$

$$a = \frac{1}{5(5+1)(5+2)} = 0,004$$

$$a = \frac{1}{6(6+1)(6+2)} = 0,002$$

$$a = \frac{1}{7(7+1)(7+2)} = 0,001$$

$$a = \frac{1}{8(8+1)(8+2)} = 0,001$$

$$a = \frac{1}{10(10+1)(10+2)} = 0,000753$$

$$\begin{aligned}
 a &= 1 \cdot 2^{1-1} = 1 & a &= 2 \cdot 2^{2-1} = 4 & a &= 3 \cdot 2^{3-1} = 12 \\
 a &= 4 \cdot 2^{4-1} = 32 & a &= 5 \cdot 5^{5-1} = 80 & a &= 6 \cdot 6^{6-1} = 192 \\
 a &= 7 \cdot 7^{7-1} = 448 & a &= 8 \cdot 8^{8-1} = 1024 & a &= 9 \cdot 2^{9-1} = 2304 \\
 a &= 10 \cdot 2^{10-1} = 5120 = 9217
 \end{aligned}$$

$$a = \left(\frac{1}{4}\right)^1 + 3 \frac{1}{5} = 1.495$$

$$a = \left(\frac{1}{4}\right)^2 + 3 \frac{2}{5} = 1.614$$

$$a = \left(\frac{1}{4}\right)^3 + 3 \frac{3}{5} = 1.94$$

$$a = \left(\frac{1}{4}\right)^4 + 3 \frac{4}{5} = 2.412$$

$$a = \left(\frac{1}{4}\right)^5 + 3 \frac{5}{5} = 3.00$$

$$a = \left(\frac{1}{4}\right)^6 + 3 \frac{6}{5} = 3.737$$

$$a = \left(\frac{1}{4}\right)^7 + 3 \frac{7}{5} = 4.655$$

$$a = \left(\frac{1}{4}\right)^8 + 3 \frac{8}{5} = 5.799$$

$$a = \left(\frac{1}{4}\right)^9 + 3 \frac{9}{5} = 7.22$$

$$a = \left(\frac{1}{4}\right)^{10} + 3 \frac{10}{5} = 9.000$$

$$= 40.872$$

$$a = 2 \cdot 1 (2 \cdot 1 - 1) = 2$$

$$a = 2 \cdot 2 (2 \cdot 2 - 1) = 12$$

$$a = 2 \cdot 3 (2 \cdot 3 - 1) = 30$$

$$a = 2 \cdot 4 (2 \cdot 4 - 1) = 56$$

$$a = 2 \cdot 5 (2 \cdot 5 - 1) = 90$$

$$a = 2 \cdot 6 (2 \cdot 6 - 1) = 132$$

$$a = 2 \cdot 7 (2 \cdot 7 - 1) = 182$$

$$a = 2 \cdot 8 (2 \cdot 8 - 1) = 240$$

$$a = 2 \cdot 9 (2 \cdot 9 - 1) = 306$$

$$a = 10 \cdot 2 (2 \cdot 10 - 1) = 390$$

$$= 1230$$

$$a = 1 - (1 - 1) = 1 \quad a = 2(2 - 1) = 1$$

$$a = 3 - (3 - 1) = 1 \quad a = 4(4 - 1) = 1 \quad a = 5(5 - 1) = 1$$

$$a = 6 - (6 - 1) = 1 \quad a = 7(7 - 1) = 1 \quad a = 8(8 - 1) = 1$$

$$a = 9 - (9 - 1) = 1 \quad a = 10(10 - 1) = 1 = 10$$