

(4)

a) $a_n = n^2 - 3n + 2$

~~a_1~~ $a_1 = 1^2 - 3 \cdot 1 + 2 = 1 - 3 + 2 = 0$

$a_2 = 2^2 - 3 \cdot 2 + 2 = 4 - 6 + 2 = 0$

$a_3 = 3^2 - 3 \cdot 3 + 2 = 9 - 9 + 2 = +2$

$a_4 = 4^2 - 3 \cdot 4 + 2 = 16 - 12 + 2 = +6$

b) $a_n = \frac{n+4}{2n+1}$

$a_1 = \frac{1+4}{2 \cdot 1 + 1} = \frac{5}{3} = 1\frac{2}{3}$

$a_2 = \frac{2+4}{2 \cdot 2 + 1} = \frac{6}{5} = 1\frac{1}{5}$

$a_3 = \frac{3+4}{2 \cdot 3 + 1} = \frac{7}{7} = 1$

$a_4 = \frac{4+4}{2 \cdot 4 + 1} = \frac{8}{9} = 0\frac{8}{9}$

(5)

a) $a_1 = -1 \parallel a_n = n + a_{n-1}$

$a_2 = 2 + (-1) = 1$

$a_3 = 3 + 1 = 4$

$a_4 = 4 + 4 = 8$

b) $a_n = 2a_{n-1}^2 - 3n$

$a_1 = 2$

$a_2 = 2 \cdot 2^2 - 3 \cdot 2 = 8 - 6 = 2$

$a_3 = 2 \cdot 2^2 - 3 \cdot 3 = 8 - 9 = -1$

$a_4 = 2 \cdot (-1)^2 - 3 \cdot 4 = 2 \cdot 1 - 12 = -10$

Pag 137

16 (7) a) $a_n = n + 1$

b) $a_n = 3n$

c) $a_n = 5n$

d) $a_n = 5 + 3n$

Pag 130

16 (86) $I = \frac{3.000 \cdot 4'3 \cdot 5}{100} = \underline{\underline{645 \text{ €}}}$

$$I = \frac{3.000 \cdot 4'3 \cdot 15}{12 \cdot 100} = \underline{\underline{161'25 \text{ €}}}$$

$$I = \frac{3.000 \cdot 4'3 \cdot 150}{360 \cdot 100} = \underline{\underline{53'75 \text{ €}}}$$

18 (87)

$$3.760 = \frac{C \cdot 7'5 \cdot 1}{100} \quad // \quad C = \frac{3.760 \cdot 100}{7'5} = \underline{\underline{50.133'33 \text{ €}}}$$

18 (89)

a) $I = \frac{C \cdot r \cdot t}{100} = \frac{40.000 \cdot 5 \cdot 5'5}{100} = \underline{\underline{11.000 \text{ €}}}$

b) $\frac{11.000}{\frac{1}{15} + \frac{1}{14} + \frac{1}{12} + \frac{1}{10}} = \frac{x}{\frac{1}{15}} = \frac{y}{\frac{1}{14}} = \frac{z}{\frac{1}{12}} = \frac{a}{\frac{1}{10}}$

$\rightarrow \frac{28}{420} + \frac{30}{420} + \frac{35}{420} + \frac{42}{420} = \frac{135}{420}$

$$\frac{11.000}{135/420} = \frac{x}{1/15} \quad // \quad \frac{420 \cdot 11.000}{135} = \frac{15 \cdot x}{1} \quad //$$

$$x = \frac{420 \cdot 11.000}{135 \cdot 15} = \underline{\underline{2.281'48 \text{ €}}}$$

$$\uparrow = \frac{11.000}{135/420} = \frac{y}{1/14} \quad // \quad \frac{420 \cdot 11.000}{135} = \frac{14 \cdot y}{1}$$

$$\uparrow = \frac{420 \cdot 11.000}{14 \cdot 135} = \underline{\underline{2.444'44 \text{ €}}}$$

$$\text{At} \quad \frac{11.000}{135/420} = \frac{z}{1/12} \quad // \quad \frac{420 \cdot 11.000}{135} = \frac{12 \cdot z}{1}$$

$$z = \frac{420 \cdot 11.000}{12 \cdot 135} = \underline{\underline{2.851'85 \text{ €}}}$$

$$\text{At} \quad \frac{11.000}{135/420} = \frac{o}{1/10} \quad // \quad \frac{420 \cdot 11.000}{135} = \frac{10 \cdot o}{1}$$

$$o = \frac{420 \cdot 11.000}{10 \cdot 135} = \underline{\underline{3.422'22 \text{ €}}}$$

Pag 131

18
(97)

$$220 \cdot t + 40 \cdot t = 520$$

$$260t = 520$$

$$t = \frac{520}{260} = 2h.$$

Se encuentran a las : $09:45 + 2h = 11:45m.$

P131

17
98

$$15t + 15 = 60 \cdot t$$

$$15 = 60t - 15t = 45t$$

$$t = \frac{15}{45} = \frac{1}{3} \text{ de hora} = \underline{\underline{20 \text{ m.}}}$$