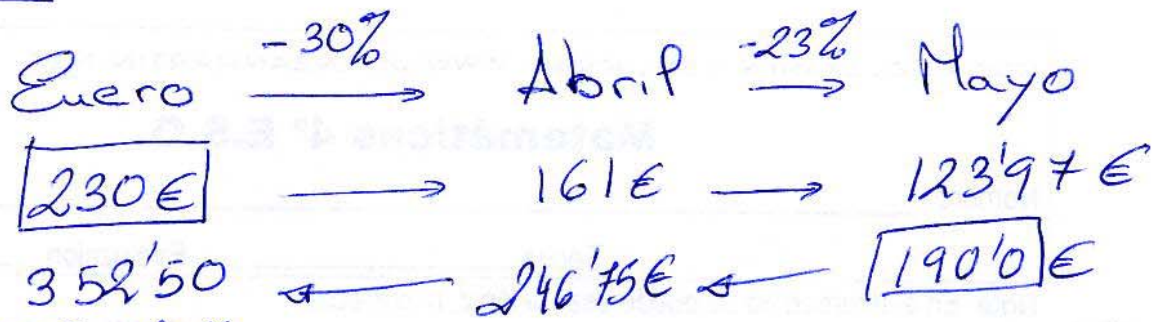


Segunda



$$100\% - 30\% = 70\%$$

$$\frac{230 \cdot 70}{100} = 161\text{€} \text{ cuesta en Abril}$$

$$100\% - 23\% = 77\%$$

$$\frac{161 \cdot 77}{100} = 123'97\text{€}$$

$$190 \longrightarrow 77\%$$

$$x \longrightarrow 100\%$$

$$x = \frac{190 \cdot 100}{77} = 246'75\text{€}$$

$$246'75 \longrightarrow 70\%$$

$$y \longrightarrow 100\%$$

$$y = \frac{246'75 \cdot 100}{70} = 352'50\text{€}$$

② $C = 5000\text{€}$ $C = C_0 \cdot \left(1 + \frac{r}{100}\right)^t$

$I = 3'5\%$ anual $t = 11 \text{ meses} = 0'92 \text{ años}$

$$C = 5000 \left(1 + \frac{3'5}{100}\right)^{0'92}$$

$$C = 5160'78\text{€}$$

$$\textcircled{3} \quad b_1 = -1 \quad b_m = b_{m-2} - 2 \cdot b_{m-1}$$

$$b_2 = 0$$

$$b_3 = b_{3-2} - 2b_{3-1} = b_1 - 2 \cdot b_2 = -1 - 2 \cdot 0 = -1$$

$$b_4 = b_{4-2} - 2b_{4-1} = b_2 - 2 \cdot b_3 = 0 - 2 \cdot (-1) = +2$$

$$\textcircled{4} \quad 4'5; \overset{+0'7}{5'2}; 5'9; 6'6$$

$$a_m = a_1 + (m-1) \cdot d = 4'5 + (m-1) \cdot 0'7$$

$$a_m = 4'5 + 0'7m - 0'7 \Rightarrow \boxed{a_m = 3'8 + 0'7m}$$

$$a_7 = 3'8 + 0'7 \cdot 7 = 3'8 + 4'9 = 8'7$$

$$S_m = \frac{(a_1 + a_m) \cdot m}{2} \Rightarrow S_{13} = \frac{(a_1 + a_{13}) \cdot 13}{2}$$

$$a_{13} = 3'8 + 0'7 \cdot 13 = 12'9$$

$$S_{13} = \frac{(4'5 + 12'9) \cdot 13}{2} = \underline{\underline{113'1}}$$

$$\textcircled{5} \quad a_2 = 17 \quad a_m = a_1 + (m-1)d$$

$$17 = a_1 + (2-1) \cdot d = a_1 + d$$

$$a_5 = 50$$

$$50 = a_1 + (5-1) \cdot d = a_1 + 4d$$

$$\left. \begin{array}{l} 17 = a_1 + d \\ 50 = a_1 + 4d \end{array} \right\}$$

$$\begin{array}{r} 50 = a_1 + 4d \\ - 17 = -a_1 - d \\ \hline 33 = 3d \end{array}$$

$$\boxed{d = 11}$$

$$a_1 = 17 - d = 17 - 11 = 6 \quad \boxed{a_1 = 6}$$