Xd.3

$$\alpha$$
 $\alpha_n = m\alpha_{n-2}$

c)
$$a_{m} = 2a_{[m/2]} + m$$

$$Q_{1} = 2Q_{0} + 0 \implies \alpha_{0} = 0$$

$$Q_{1} = 2Q_{1} + 1 = 1$$

$$Q_{2} = 2Q_{1} + 2 = 4$$

$$\vdots$$

$$muring wange was wells to wants to$$

Zad. 4

$$f_{n} = \sum_{i=1}^{n} 3^{i}$$

$$h_{n} = \sum_{i=1}^{n} 4\sqrt{(1)^{(i)}} \cdot i$$

$$L_{n} = 1 2^{F_{n}}$$

$$\alpha_{v} = 1 \quad \alpha_{m} = \frac{2}{a_{m-1}}$$

(a)
$$b_0 = 0$$
, $b_m = \frac{1}{1+b_{m-1}}$ $b_m = \frac{F_{m-1}}{F_m}$

d)
$$d_0 = 1$$
, $d_1 = 2$
 $d_n = \frac{d_{n-1}^2}{d_{n-2}}$ $d_n = 2^m$

$$\alpha_{m} = \begin{cases} 1, \alpha = 0 \\ 2, wy \gamma \end{cases}$$

$$C_{m} = \frac{F_{m-1}}{F_{m}}$$

$$C_{m} = 2^{m-1}$$

$$m > 0$$

a)
$$y_0 = y_1 = 1$$
 $y_m = \frac{y_{m-1} + y_{m-2}}{y_{m-1} + y_{m-2}}$ $y_m = 1$

(1)
$$z_0 = 1$$
 $1z_1 = 2$ $z_m = \frac{z_{m-1}^2 - 1}{z_{m-2}}$ $z_m = m+1$

$$Z_{m} = \frac{Z_{m-1}^{2} - 1}{Z_{m-1}^{2}}$$

c)
$$t_0=0$$
 $t_1=1$ $t_n=\frac{(t_{n-1}-t_{n-2}+3)^2}{4}$ $t_n=n^2$

$$2ad.8$$

$$Q_{m} = \frac{1 + a_{m-1}}{a_{m-2}}$$

$$Q_2 = \frac{1+\beta}{\alpha} = \frac{1}{\alpha} + \frac{\beta}{\alpha}$$

$$Q_2 = \frac{1+\beta}{\alpha} = \frac{1}{\alpha} + \frac{\beta}{\alpha}$$

$$a_3 = \frac{1 + \frac{1+\beta}{\alpha}}{\beta} = \frac{1}{\beta} + \frac{1+\beta}{\alpha\beta} = \frac{1}{\beta} + \frac{1+\beta}{\alpha} + \frac{1}{\alpha\beta} = \frac{1}{\alpha\beta} + \frac{1+\beta}{\alpha\beta} = \frac{1+\beta}{\alpha\beta} + \frac{1+\beta}{\alpha\beta} + \frac{1+\beta}{\alpha\beta} = \frac{1+\beta}{\alpha\beta} + \frac{1+\beta}{\alpha\beta}$$

$$Q_4 = \frac{1 + \frac{1}{\alpha} + \frac{\beta}{\alpha}}{\frac{1}{\beta} + \frac{\beta}{\alpha} + \frac{1}{\alpha}} = \frac{\alpha + 1}{\beta}$$

$$\alpha_6 = \frac{1+\alpha}{1+\alpha} = 1+\alpha = \frac{\beta}{1+\alpha} = 0$$

Problem FoFz = 01 = 12-1= f1 = (1)1 = 0

With: FmFm12 = Fn (fm+Fm11) - Fn + FnFm11 = Fm11 Fm11 - (-1) + Fn Fm11 = Fm11 (Fn+Fn) - (-1) - F2 + (-1) - F3 + (-1) - (

d) Fin Find = Finds + (-1) m+7