

$$\text{Είναι } f(0) = \alpha \cdot 0 - \beta \Rightarrow f(0) = -\beta \quad (1) \quad , \quad f(1) = \alpha \cdot 1 - \beta \Rightarrow f(1) = \alpha - \beta \quad (2)$$

$$f(2) = (2\alpha - 1) \cdot 2 + 2\beta \Rightarrow f(2) = 4\alpha + 2\beta - 2 \quad (3)$$

Επομένως

$$f(0) = \beta + 2 \stackrel{(1)}{\Rightarrow} -\beta = \beta + 2 \Rightarrow -2\beta = 2 \Rightarrow \beta = -1$$

$$f(2) + f(1) = 4\alpha + \beta \stackrel{(2),(3)}{\Rightarrow} \alpha - \beta + \cancel{4\alpha} + 2\beta - 2 = \cancel{4\alpha} + \beta \Rightarrow \alpha + \beta - 2 = \beta \Rightarrow \alpha = 2$$