## AULA PRÁTICA 3

FH - 
$$CS = 10 \cdot \log \frac{I_{FH}}{I_0}$$

$$6.5 = \log \frac{I_{FH}}{I_0} \rightarrow \log \frac{I_{FH}}{I_0} = 6.5 \rightarrow \frac{I_{FH}}{I_0} = 10^{6.5}$$

$$9,44 = \log \frac{I_{FU}}{I_0} \rightarrow \log \frac{I_{FU}}{I_0} = 9,44 \rightarrow \frac{I_{FU}}{I_0} = 10$$

## COMPARANDO:

$$\frac{I_{FU}}{I_0} = \frac{I_0 \cdot 10^{9,44}}{I_0 \cdot 10^{6,5}} = \frac{10^{9,44}}{I_0 \cdot 6,5} = 870,96 \text{ VEZES MAIS intensa}$$

02. 
$$M = C(1+i)^n$$

$$20000 = 10000 \left(1 + \frac{1,5}{100}\right)^n$$

$$\log 2 = n \cdot \log 1.015 \rightarrow n = 46,55$$



03. 
$$f(x) = \alpha \cdot b^{x}$$

$$2000 = a \cdot b^0 \rightarrow a = 2000$$

$$f(x) = 2000.b^{x}$$

$$\frac{5}{2} = b^{15} \longrightarrow b = \sqrt{\frac{5}{2}} = (\frac{5}{2})^{\frac{1}{15}} b = 1,063$$

Portanto: 
$$F(x) = 2000 \cdot 1,063^{\times}$$