

$$C_1 = 300 \quad i_2 = 0,045$$

$$C_2 = 310 \quad i_2 = 0,04375$$

$$J_2 = 9\%$$

$$J_2 = 8,75\%$$

x = tempo di impiego (in semestri)

$$300(1,045)^x = 310(1,04375)^x$$

$$\frac{300(1,045)^x}{300} = \frac{310(1,04375)^x}{300}$$

$$(1,045)^x = 1,03(1,04375)^x$$

$$\frac{(1,045)^x}{(1,04375)^x} = 1,03$$

Si sfrutta la proprietà delle potenze:

$$\frac{a^x}{b^x} = \left(\frac{a}{b}\right)^x$$

$$(1,001197605)^x = 1,03$$

$$x = \frac{\log_{10} 1,03}{\log_{10} 1,001197605} = 27,395869 \text{ semestri}$$

$$13,69794432 = 13 \text{ ANNI}$$

$$0,69794432 \times 12 = 8 \text{ mesi}$$

$$0,37533184 \times 30 = 11 \text{ GIORNI}$$

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$$C_1 = 7000$$

$$C_2 = 12000$$

$$C_3 = 15000$$

$$t = 12 \text{ anni}$$

$$R_1 = 7\%$$

$$R_2 = 9\%$$

$$R_3 = 11\%$$

$$15765,34 + 33751,98 + 52476,76 = M$$

$$M = 101994,08$$

$$\frac{34000(1+i)^{12}}{34000} = \frac{101994,08}{34000}$$

$$\left[(1+i)^{12}\right]^{\frac{1}{12}} = (2,999825882)^{\frac{1}{12}}$$

$$1+i = 1,095867391$$

$$i = 0,095867391$$