

calcolare  
 $W(T)$

$$W(0) = 1100 \quad T = 3 \text{ anni} \quad i = 2\%$$

RIS  $W(3) = 1100 (1 + 0,02 \cdot 3) = 1100 \cdot 1,06$

RIC  $W(3) = 1100 (1 + 0,02)^3 = 1100 \cdot 1,02^3$

calcolare  
 $W(0)$

$$T = 2 \quad W(T) = 1000 \quad i = 3,1\%$$

RIS  $W(T) = W(0) (1 + iT)$   $W(0) = \frac{W(T)}{1 + iT}$

$$1000 = W(0) (1 + 0,031 \cdot 2)$$

$$W(0) = \frac{1000}{1 + 0,031 \cdot 2} = \frac{1000}{1,062}$$

RIC  $W(T) = W(0) (1 + i)^T$

$$1000 = W(0) 1,031^2 \quad W(0) = \frac{1000}{1,031^2}$$

$$W(0) = 1600 \quad W(T) = 1800 \quad T = 2,5$$

calcolare il  
 tasso di  
 interesse

RIS  $1800 = 1600 (1 + i \cdot 2,5)$

$$\frac{1800}{1600} = 1 + 2,5i \Rightarrow 2,5i = \frac{1800}{1600} - 1$$

$$i = \left( \frac{1800}{1600} - 1 \right) / 2,5 = 0,05 = 5\%$$

RIC  $1800 = 1600 (1 + i)^{2,5}$

$$\frac{1800}{1600} = (1+i)^{2.5} \Rightarrow 1+i = \left(\frac{1800}{1600}\right)^{\frac{1}{2.5}}$$

$$i = \left(\frac{1800}{1600}\right)^{\frac{1}{2.5}} - 1$$

$$W(0) = 1000 \quad W(T) = 1500 \quad i = 2.8\%$$

calcolare  
la durata

RIS  $1500 = 1000(1 + 0,028 T)$

$$\frac{1500}{1000} = 1 + 0,028 T$$

$$0,028 T = \frac{1500}{1000} - 1 \Rightarrow T = \left(\frac{1500}{1000} - 1\right) / 0,028 = 17,8571$$

RIC  $\Rightarrow 1500 = 1000(1 + 0,028)^T$

$$\frac{1500}{1000} = 1,028^T \quad \ln\left(\frac{1500}{1000}\right) = \ln 1,028^T$$

$$= T \ln 1,028$$

$$T = \frac{\ln(1500/1000)}{\ln 1,028} = 14,6826$$