LN 10.2.

$$v = \frac{T}{CHij} \iff T = v \cdot CHij \cdot \frac{1}{2} \cdot \frac{6\%}{2} = 3\%.$$

$$Ex: Pv = Fr \cdot a_{nj} + C * v_j^n = loo \cdot \frac{4\%}{2} \cdot a_{nj} + loo \cdot v_j^4$$

$$T = \underbrace{\frac{f}{f} t \cdot Fr \cdot v_j^t + n \cdot c \cdot v_j^n}_{f + r} = \frac{f}{f} \cdot \frac{f}{f} \cdot v_j^t + r \cdot c \cdot v_j^n$$

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76.89

Ex:
$$j = \frac{20\%}{2} = 10\%$$
 per half)

 $T = 13.13 \text{ half yrs}$
 $= 6.56 \text{ yrs}$.

$$f(x+6) \cong f(x) + \mathcal{E}f'(x) +$$

$$v = -\frac{PV'(\bar{r}_0)}{PV}$$
; $T = v \cdot (H_{\bar{r}_0}) = -\frac{PV'(\bar{r}_0)}{PV} \cdot (H_{\bar{r}_0})$

$$PV(\overline{i}_0+\varepsilon) \cong PV(\overline{i}_0) + \varepsilon \cdot (-PV_{\overline{i}_0} \cdot v) = PV(\overline{i}_0) \cdot (1-\varepsilon \cdot v)$$

$$= PV(\overline{i}_0) + \varepsilon \cdot (-PV_{\overline{i}_0} \cdot v)$$

$$= PV(\overline{i}_0) + \varepsilon \cdot (-PV_{\overline{i}_0} \cdot v)$$

$$= PV(\overline{i}_0) + \varepsilon \cdot (-PV_{\overline{i}_0} \cdot v) = PV(\overline{i}_0) \cdot (1-\varepsilon \cdot v)$$

$$= - \mathcal{E} \mathcal{V}$$

$$= - \mathcal{E} \cdot \frac{\mathcal{T}}{(1+i_0)}.$$

$$\frac{5x}{j} = \frac{921.77}{2} = \frac{10}{6}.$$

$$7 = \frac{20}{2} = \frac{10}{6}.$$

$$7 = \frac{13.13}{10} \text{ half yrs.}$$

$$S_{3}$$
: $PV(11%) = PV(\frac{1}{1}%)$

$$= PV(10/2) \cdot \left(1 - \frac{1/6 \cdot 13.13}{1 + 10/6}\right)$$

M2
$$\overline{1}_0 = (1+10\%)^2 - 1 = 0.21$$
 p.a.
 $\overline{L} = \frac{13.13}{2} = 6.565$ yrs.
 $\overline{\mathcal{E}} = (1+11\%)^2 - 1 - \overline{1}_0 = 0.0221$.

$$PV(\bar{1}_{0}+\epsilon) = PV(\bar{1}_{0}) \left(1 - \frac{5t}{(1+i_{0})}\right)$$

$$= 21.77 \cdot \left(1 - \frac{0.0221 \times 6.565}{1 + 0.21}\right)$$

$$= 21.77 \left(1 - 0.1198\right)$$

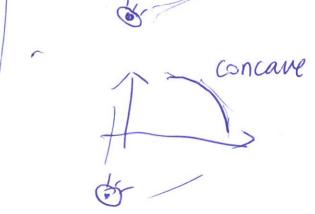
$$= $19.17$$

$$f(x+\epsilon) \cong f(x) + \xi \cdot f(x)$$

$$+\left(\frac{\xi^2}{2!}f''(x)\right)$$

$$C(\bar{1}) = \frac{dPV}{d\bar{1}^2} \cdot PV$$

$$C(i) = \frac{PV'(i)}{PV} > 0$$



$$C(i) = \frac{1}{PV} \cdot \frac{d}{di} \left(-\sum_{k=1}^{n} C_{tk} t_{k}(1+i)^{-tk-1} \right) S$$

$$PV = \sum_{k=1}^{n} C_{tk} \cdot \left(1+i \right)^{-tk} \cdot \frac{dPV}{di}$$

$$C(i) = \frac{\sum_{k=1}^{n} C_{tk} \cdot t_{k} \left(t_{k+1} \right) \cdot \left(1+i \right)^{-tk-2}}{PV}$$

$$C(i) = \sum_{k=1}^{n} C_{tk} \cdot t_{k} \cdot \left(t_{k+1} \right) \cdot \left(1+i \right)^{-tk-2}$$

$$C(i) = \sum_{k=1}^{n} C_{tk} \cdot t_{k} \cdot \left(t_{k+1} \right) \cdot \left(1+i \right)^{-tk-2}$$

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