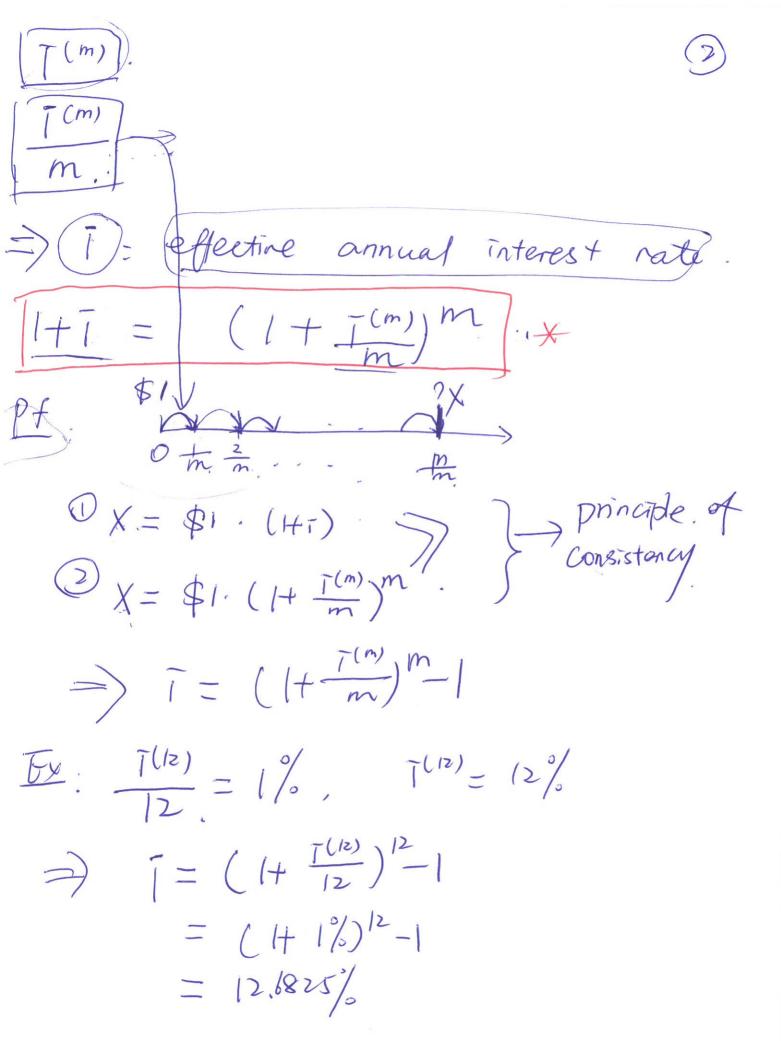
Ex

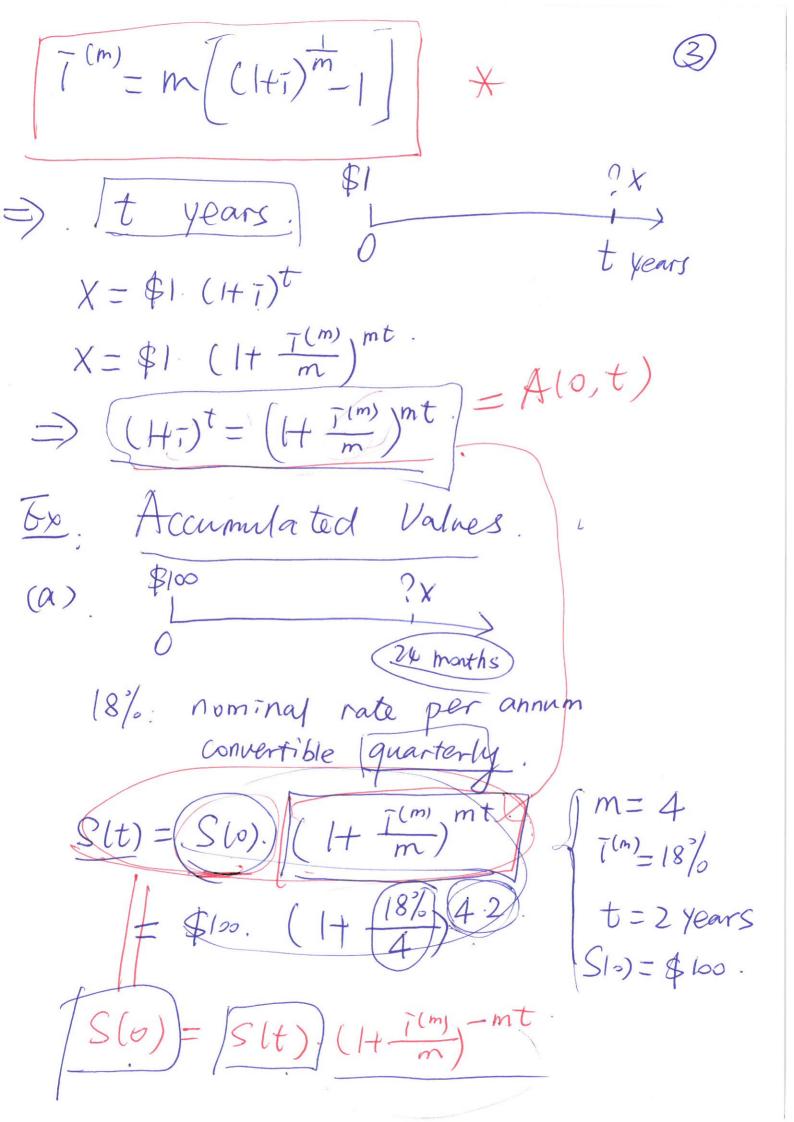
O + 2 - - | Irmonths

effective monthly interest rate = 1%.

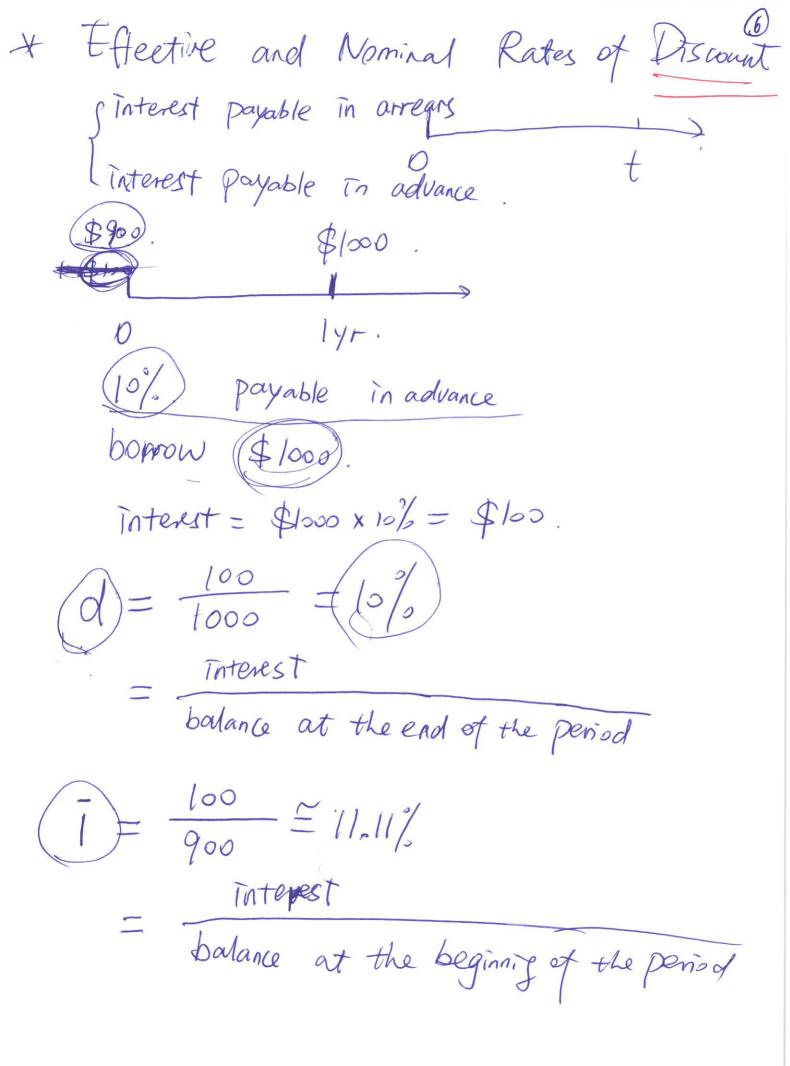
nominal interest rate per annum.

compounded monthly = 1/0 x 12=12/



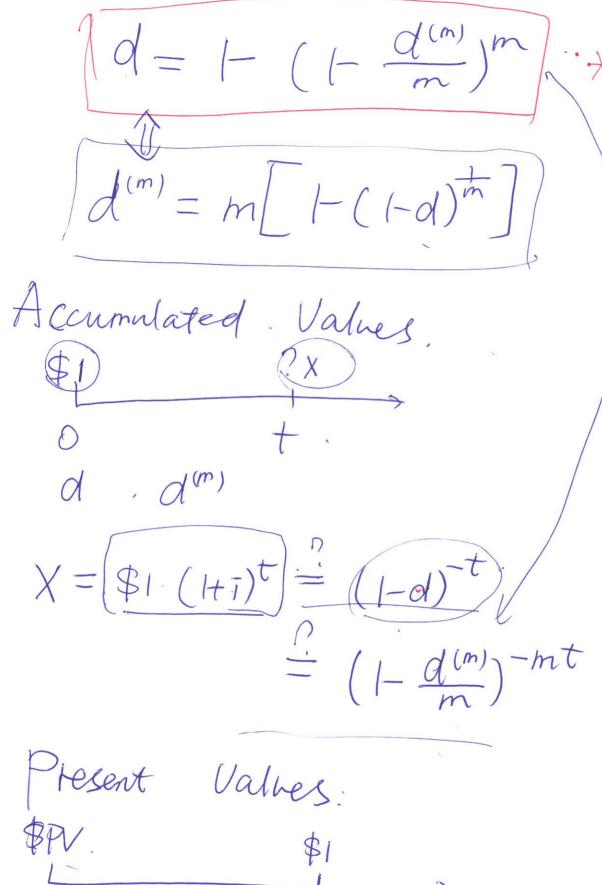


6 months 12%: nominal rate per annum covertible neckly m = (52)T(m) = 12% S(0)=\$50. S (t)= Slo) (H = 50 · (|+ 12% 52.2 = \$ 53.09 (C) \$100 8%: Effective half-yearly 7(m) = 8%x2 = 16% t = 5 years 510)=\$100



\$(1+17) T: annual effective Jyr. rate of interst Interest = T d= 1+1 = 1-1+1 =1-v (() 5(1)

Nominal Discount Rate nominal annual rate of discount convertible m times a year. effective rate of Discount over myr effectiver rate of discount. (PV)=\$1. (Ha) = \$1.0= K(1-d) d= interest = d => PU=AV- interest = Hd $PV = \left(1 - \frac{d(m)}{m}\right) \left(1 - \frac{d(m)}{m}\right) - \left(1 - \frac{d(m)}{m}\right)$ = ((- d(m)) m



d, $d^{(m)}$.

 $PV = \$1 (1+i)^{-t} = 0^{t} = (1+d)^{t}$ $= (1-d)^{t}$ $= (1-d)^{t}$

12%: nominal rate et discount.

convertible once every two yrs.

Sel: $\int m = 0.5$ $d^{(m)} = 12/.$ t = 10 yrsS(t) = \$500

 $S(0) = S(t) \cdot (1 - \frac{d(m)}{m})^{mt}$ $= 500 \cdot (1 - \frac{12\%}{0.5})^{0.5 \cdot 10}$ = \$126.78

T: Effective annual Interest rate: $S(0) \cdot (H_1)^{t} = 500. \Rightarrow T = 14.71\%$