How can we use these? Yield to maturity on a perpetuity/consol Writing in terms of sun of all payments: P= F + F //+6/3 + 00 $= \frac{F}{1+i} \left[1 + \frac{1}{1+i} + \frac{1}{(1+i)^2} + \cdots \right]$ Geometric series

with $r = \frac{1}{1+i}$ $=\underbrace{F}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1-\frac{1}{1+\hat{i}}\end{bmatrix}}=\underbrace{F}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}1\\1\\1\neq\hat{i}\end{bmatrix}}_{1\neq\hat{i}}\underbrace{\begin{bmatrix}$ $=\frac{F}{|\psi|}\left[\frac{|\psi|}{i}\right]$ \Rightarrow P = F/iSimilarly, for a fixed-payment ban with N payments D= F + F + 000 + 1 + 2)N = Filt + (11) + (11)2 + 000 + (11)N-1) Partial Sun with $=\frac{F}{1+i}\int_{1-\frac{1}{1+i}}^{1-\frac{1}{1+i}}\int_{1$