108.0901 - 108.26.5 = 0.0157 DVOI for option = $= \frac{p(y + o.o.(2)) - p(y - o.o.(2))}{2}$ = _ 8.0866 - 8.21+8 - 0.0641 2) Face amount of bond = Feption x DVD (pond = /m · x 0.0641 = 9747918 We should lose \$ 747918 bond to make the parthis over a). Monthly payment X= Bo. 4 / (1-(1+ 1/2)-12T) = 100,000 × 1/2/ (1-(+ 1/2)-12×21) = \$1.584.59

We have $D_{c=0} = \frac{\tau}{1+\frac{\eta}{2}}$ and $C_{c=0} = \frac{T(T+0.1)}{(1+\frac{\eta}{2})^2}$ Duration of A = 10 = 9.8522 Convexity of A = (0110.5)/(1+32)2=101.9195 Quater 4 B = 0,8(2/(1+3%/2)) + 0,2(30/(1+32/2)) - 7.4877 Convexity of B= 0.8 (2(2)/(1+32)2)+0.2 (30(30.5)/(1+32)2) = 181.5137 .. Duration of B is shorter than A. convexity of 13 is larger than A.