Question #3: solution

For the first bond with T=5, C=16 we have

$$\frac{P_{1}(y)}{100} \stackrel{37}{e} = e + \frac{16}{1000 \left(1 - e^{3/2}\right)} \left(1 - e^{5/2}\right)$$

and for the second bond with T=4, c=20 we have

$$\frac{P_{1}(3)}{100} = \frac{97}{e} = \frac{-49}{e} + \frac{20}{100(1-e^{-3/2})}$$

we can show that for yo, we have always

P2 > P, -> P2 15 likely to cost more

and the reason is as follows: