Assignment 1

Question2

Use the formula: Effective Rate = (1 + Nominal Rate/t)^t - 1

- a) t = 1, Effective Interest Rate = (1 + 10%) 1 = 10.00%
- b) t = 2, Effective Interest Rate = $(1 + 10\% / 2)^2 1 = 10.25\%$
- c) t = 365, Effective Interest Rate = $(1 + 10\% / 365)^{365} 1 = 10.52\%$

Question5

Use the formula: Bond Price = $Principal \times C/t \times \sum_{i=1}^{n \times t} \frac{1}{(1+R/t)^i} + \frac{Principal}{(1+R/t)^{n \times t}}$

- a) Principal = 100, C = 7.5%, t = 2, n = 2, R = 5.90%
- : bond price = $100 \times 7.5\% / 2 \times \sum_{i=1}^{4} \frac{1}{(1+5.9\%/2)^{i}} + \frac{100}{(1+5.9\%/2)^{4}} = 102.98