

Nama : Danisa Sabril Nutani

NIM : 2010601045

1. Diketahui :

$$PV_0 = 100.000$$

$$r = \frac{12\%}{3} = 4\%$$

$$n = 5 \text{ tahun}$$

Ditanya : FV_5 ...

$$\begin{aligned} \text{Jawab : } FV_5 &= PV_0 (1+r)^5 \\ &= 100.000 (1+3\%)^5 \\ &= \text{Rp } 100.000 (1+0,03)^5 \\ &= \text{Rp } 100.000 (1,03)^5 \\ &= \text{Rp } 100.000 (1,159) \\ &= \text{Rp } 115.900 \end{aligned}$$

2. Diketahui :

$$FV_5 = \text{Rp } 5.000.000$$

$$r = 8\%$$

$$n = 5 \text{ tahun}$$

Ditanya : PV_0 ...

$$\begin{aligned} \text{Jawab : } PV_0 &= \frac{FV_5}{(1+r)^5} \\ &= \frac{5.000.000}{(1+8\%)^5} \\ &= \frac{\text{Rp } 5.000.000}{(1,08)^5} \\ &= \frac{\text{Rp } 5.000.000}{1,4693} \\ &= \text{Rp } 3.402.915,9 \end{aligned}$$

3. Diketahui :

$$FV_2 = 10.000.000$$

$$r_1 = 10\%$$

$$r_2 = 15\%$$

$$\begin{aligned} \bullet PV_{01} &= \frac{10.000.000}{(1+0,1)^1} \\ &= \frac{10.000.000}{1,1} \\ &= 9.090.909 \end{aligned}$$

Ditanya :

PV_0 ...

$$\begin{aligned} \bullet PV_0 &= \frac{9.090.909}{(1+0,10)^1} \\ &= \frac{9.090.909}{(1,1)} \\ &= 8.264.462 \end{aligned}$$

$$\begin{aligned} \bullet PV_{02} &= \frac{8.264.462}{(1+15\%)^1} \\ &= \frac{8.264.462}{(1+0,15)^1} \\ &= \frac{8.264.462}{1,15} = 7.186.488 \end{aligned}$$