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$$1. \quad FV = PV (1+i)^n = 100.000 (1+0,03)^5 = 115.927 //$$

$$2. \quad PV = \frac{FV}{(1+i)^n} = \frac{5.000.000}{(1+0,08)^5} = \frac{5.000.000}{146932} = 3.402.915 //$$

$$3. \quad PV = \frac{FV}{(1+i)^n} = \frac{10.000.000}{(1+0,10)^1} = \frac{10.000.000}{1,1} = 9.090.909$$

$$\frac{FV}{(1+i_2)^n} = \frac{9.090.909}{(1+0,10)^1} = 8.264.462$$

$$\frac{FV}{(1+i_3)^n} = \frac{8.264.462}{(1+0,15)^1} = 7.186.488 //$$