

$$Q_1: F = 125139$$

$$P = F \cdot (1+i)^{-N}$$

$$= 125139(1+3\%)^{-5}$$

$$= \boxed{107946.0007}$$

$$Q_2: N=8, A=14487, i=3\%$$

$$P = 14487 \cdot \left[ \frac{(1+0.03)^8 - 1}{0.03(1+0.03)^8} \right]$$

$$= 14487 \times 7.02$$

$$= \boxed{101694.2809}$$