

0.45

$$\begin{aligned} 3 \quad APY &= \left(1 + \frac{APR}{N}\right)^N - 1 \\ &= \left(1 + \frac{0.0742}{12}\right)^{12} - 1 \\ &= 0.074210584 \end{aligned}$$

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$$APY = 7.42\%$$

$$4) \quad 2p = p \times \left(1 + \frac{0.12}{4}\right)^{44}$$