1. You are given:
   i. \( q_{50}^{10} = 0.100 \)
   ii. \( q_{50}^{20} = 0.244 \)
   iii. \( q_{50}^{20|10} = 0.1890 \)

   Calculate \( q_{50}^{10|10} \).
2. You are given that \( \mu = \frac{3x^2}{110^3 - x^3} \) for \( 0 \leq x \leq 110 \).

Calculate \( s_0 P_0 \).