

### Question #208

Answer: B

$$\begin{aligned}A_{60} &= v \times (p_{60} \times A_{61} + q_{60}) \\ &= (1/1.06) \times (0.98 \times 0.440 + 0.02) \\ &= 0.42566\end{aligned}$$

$$\begin{aligned}\ddot{a}_{60} &= (1 - A_{60}) / d \\ &= (1 - 0.42566) / (0.06 / 1.06) \\ &= 10.147\end{aligned}$$

$$\begin{aligned}1000 {}_{10}V &= 1000A_{60} - 1000P_{50} \times \ddot{a}_{60} \\ &= 425.66 - 10.147 \times 25 \\ &= 172\end{aligned}$$