

### Question #198

Answer: A

$${}_0L_e = \begin{array}{l} \text{Benefits +} \\ 1000v^3 + \end{array} \begin{array}{l} \text{Expenses} \\ (0.20G + 8) + (0.06G + 2)v + (0.06G + 2)v^2 \end{array} - \begin{array}{l} \text{Premiums} \\ G\ddot{a}_{\overline{3}|} \end{array}$$

at  $G = 41.20$  and  $i = 0.05$ ,

$${}_0L \text{ (for } K = 2) = 770.59$$