

185. For a special fully discrete 2-year endowment insurance on (x) :

- (i) The pure endowment is 2000.
- (ii) The death benefit for year k is $(1000k)$ plus the benefit reserve at the end of year k , $k = 1, 2$. For $k = 2$, this benefit reserve is the benefit reserve just before the maturity benefit is paid.
- (iii) π is the level annual benefit premium.
- (iv) $i = 0.08$
- (v) $p_{x+k-1} = 0.9, \quad k = 1, 2$

Calculate π .

- (A) 1027
- (B) 1047
- (C) 1067
- (D) 1087
- (E) 1107