

221. For a special fully discrete 20-year term insurance on (30):

- (i) The death benefit is 1000 during the first ten years and 2000 during the next ten years.
- (ii) The benefit premium is π for each of the first ten years and 2π for each of the next ten years.
- (iii) $\ddot{a}_{30:\overline{20}|} = 15.0364$

(iv)

x	$\ddot{a}_{x:\overline{10} }$	$1000A_{x:\overline{10} }^1$
30	8.7201	16.66
40	8.6602	32.61

Calculate π .

- (A) 2.9
- (B) 3.0
- (C) 3.1
- (D) 3.2
- (E) 3.3