

**Question #185**

**Answer: A**

$${}_1V = ({}_0V + \pi)(1+i) - (1000 + {}_1V - {}_0V)q_x$$

$${}_2V = ({}_1V + \pi)(1+i) - (2000 + {}_2V - {}_1V)q_{x+1} = 2000$$

$$\left( (\pi(1+i) - 1000q_x) + \pi \right) (1+i) - 2000q_{x+1} = 2000$$

$$\left( (\pi(1.08) - 1000 \times 0.1) + \pi \right) (1.08) - 2000 \times 0.1 = 2000$$

$$\pi = 1027.42$$