HW4.

1. iIid:
$$\overline{p}(\overline{A}_{N}) = \frac{\overline{A}_{N}}{\overline{a}_{N}} \stackrel{\text{def}}{=} \frac{1}{\sqrt{a_{N}}} = \frac{1}{\sqrt{a_{N$$

万. 鸽: 记TXXX 为省之个个体的未来先后对问。

$$L_{V} = 1000 \text{ J}^{T_{V}(N)} - 3.5 \text{ } \overline{\Omega} + \overline{\Omega} \overline{T_{V}(N)} = 1070 \text{ J}^{T_{V}(N)} - 70$$

$$|\overline{\Omega}| \overline{\Omega} \quad L_{Agg} = \overline{Z}_{A} + \overline{Z}_{A} +$$

6. 13:
$$A_{25} = 1 - d\ddot{a}_{35} = 0.1787V$$

$$P(\bar{A}_{25}) = \frac{\bar{A}_{25}}{\ddot{a}_{35}} = \frac{\dot{\gamma}}{\dot{a}} \frac{\bar{A}_{35}}{\ddot{a}_{35}} = 0.00861$$

$$10^{+} \cdot (1)^{2} = 11) = A_{5} - P \ddot{a}_{5} = A_{5} - 0.05 \times \frac{1 - A_{5}}{d} = -0.73$$

 $Var(L) = 2.05 (2A_{5} - |A_{5}|^{2}) = 0.168$

日涂 avr:17

14th.

1J, A.

$$E(L) = A_{6} - T_{04} \frac{1-A_{7}}{a!} = -0.08$$

$$Var(L) = (1+\frac{T_{07}}{a!})^{2}(^{3}A_{7} + -A_{7}^{2}) = 0.0496$$

$$P(L_{MJ}>0) = P(\frac{nL+b_{08}n}{\sqrt{b_{1}}o_{4}g_{bn}} > \frac{b_{08}n}{\sqrt{o_{10}g_{6}n}}) = 1-P(\frac{o_{108}n}{\sqrt{a_{04}g_{6n}}}) = 0.05$$

$$\Rightarrow N > 70.97 \text{ Tr} 21.$$

17. 8.

$$8 = \ln |i+1| = \ln (0.04+1) = 0.029, \quad d = \frac{1}{1+i} = \frac{0.04}{1+0.04} = \frac{7}{26}$$

$$\overline{A}_{X:\overline{N}}^{1} = \overline{A}_{X:\overline{N}} - n\overline{E}_{X} = 0.804 - 0.6 = 0.204$$

$$A_{X:\overline{N}}^{1} = \frac{5}{4}\overline{A}_{X:\overline{N}}^{1} - \frac{0.029}{0.04} \times 0.004 = 2\times 10^{-3}$$

$$A_{X:\overline{N}} = \overline{A}_{X:\overline{N}}^{1} - \frac{1}{5}\overline{A}_{X:\overline{N}}^{1} = 0.804 - \frac{0.04 - 0.039}{0.039} \times 1\times 10^{-3} = 0.8$$

$$\widetilde{A}_{X:\overline{N}}^{1} = \frac{1 - A_{X:\overline{N}}}{d} = \frac{1 - 0.8}{4} = 5.7$$

$$1000P(\overline{A}_{X:\overline{N}}^{1}) = 1000 \quad \overline{A}_{X:\overline{N}}^{1} = 1000 \quad 0.804 = 154.6$$

19.0.

$$d = \frac{1}{14} = \frac{0.01}{0.054} = \frac{1}{14}, \quad \ddot{a}_{49} = \frac{1 - 0.2924}{d} = \frac{1 - 0.2924}{1/1} = 14.86$$

$$E(L) = A_{49} - W\ddot{a}_{49} = 0.2944 - 14.86 \times 0.036 = -0.4$$

$$49 \frac{1}{10} = \frac{677}{10} = 0.508$$
 $48 \frac{1}{10} = \frac{678}{10} = 0.47$
 $d = \frac{1}{10} = \frac{0.06}{0.0641} = \frac{3}{10}$

$$\ddot{\Omega}_{70} = \frac{1 - A_{70}}{d} = 76.8$$

仍. 号.

$$\overline{N} = \frac{\overline{A}x}{\overline{a}x} = \frac{1 - \overline{a}x\delta}{\overline{a}x} = \frac{1 - 5xa_{0}8}{\overline{5}} = 0.12$$

$$Var(L^*) = Var(L) \frac{(1+\frac{\pi v^*}{5})^2}{(1+\frac{\pi v^*}{5})^2} = 0.56 V5 \times \frac{(1+\frac{0.15}{0.08})^2}{(1+\frac{0.15}{0.08})^2} = 0.7439$$