$N = 5$

$h = 3$ menit

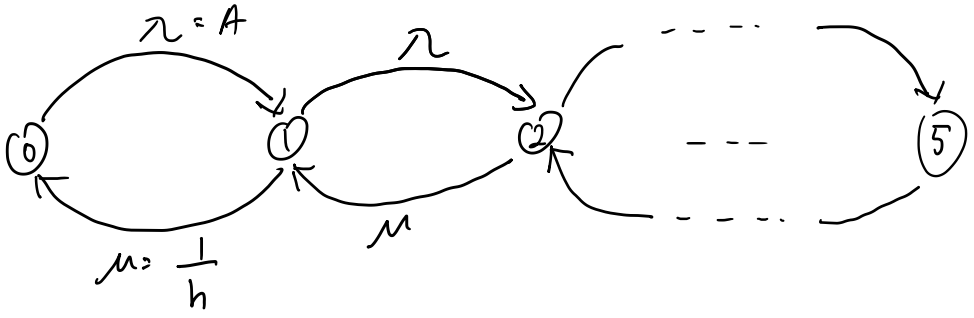
$C = 90$ panggilan

$$A = C \cdot \frac{h}{T} = 90 \cdot \frac{3}{60} = 4{,}5 \text{ Erl}$$

a.

$$A\,P(0) = 1 \cdot P(1)$$
$$A\,P(1) = 2\,P(2)$$
$$\vdots$$
$$A \cdot P(N-1) = N \cdot P(N)$$

$$\rightarrow \quad P(N) = \frac{A^N}{N!} P(0)$$



$$P(N) = \frac{A^N}{N!} e^{-A}$$

b.

$$B[5, 4.5] = \frac{\frac{A^N}{N!}}{\sum_{k=0}^{N} \frac{A^k}{k!}} = \frac{\frac{4{,}5^5}{5!}}{\sum_{k=0}^{5} \frac{4{,}5^k}{k!}} = 0{,}243$$

c.