Sample Questions
$$3 - 80$$
]

Of $P(a_k) + P(b_k) = 1 - 0 \sum_{k=0}^{\infty} \frac{2A}{(k+1)(k+2)}$
 $\Rightarrow 2A \sum_{k=0}^{\infty} \frac{1}{(k+1)(k+2)} = 2A \sum_{k=0}^{\infty} \frac{1}{(k+1)(k+2)} = 1$
 $\Rightarrow 2A \left[\frac{1}{1-1} + \frac$

If bus stops at station i

of therwise

$$P(X_{i=1}) = P(\text{at least 1 passengler gets off at station i})$$

$$= 1 - (1 - \frac{1}{n})$$
Total number of the stops = $X = X_{i+1} + X_{i+$