Problem

Q: draw
$$E(Ti) = ?$$
 n step. $P(n)$

$$P = \begin{bmatrix} 0 & 0.5 & 0.5 \\ 1 & 0 & 0 \\ 1 & 0 & 0 \end{bmatrix}$$

Solution

$$E(Ti) = \frac{1}{1 - p_{ii}} = 1$$

$$p(n) = \begin{cases} P & n \text{ is odd} \\ 0 & os \text{ o.s} \end{cases}$$
n is even

Problem 6.2

Ans: $E(T_0) = E(T_1) = E(T_2) = 1$

$$P(n) = P^n = \begin{cases} P^2, & n \text{ even} \\ P, & n \text{ odd} \end{cases}$$