Question 1

1 point possible (graded)

Let π be the steady state distribution written as a row vector.

Which of the following equations is satisfied by π?

- $\pi = \pi P$
- $\pi = P\pi$

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Question 2

1 point possible (graded)

Let us consider a discrete time Markov chain with the following state transition diagram:

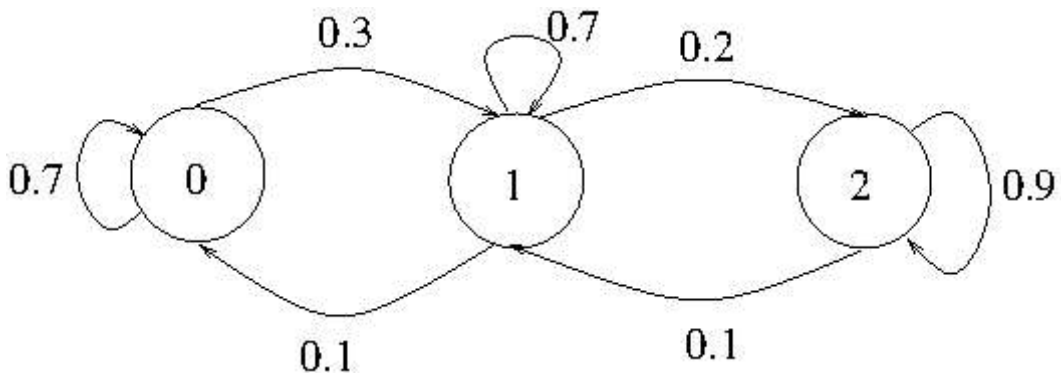

Figure 1. Question 2

Which of the following systems of load balance equations is correct?

$$\begin{cases} \pi(0)0.3 = \pi(1)0.1 \\ \pi(1)(0.1+0.2) = \pi(0)0.3 + \pi(2)0.1 \end{cases}$$

$$\begin{cases} \pi(1)0.3 = \pi(0)0.1 \\ \pi(2)0.2 = \pi(1)0.1 \end{cases}$$

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