

Solutions

Each answer shows the steps, then the **result**.

2.1

- a process that moves between states each step

2.2

- multiply the transition matrix by the current state vector

2.3

- $\begin{bmatrix} 10 \\ 20 \end{bmatrix}$ (unchanged)

3.1 B

3.2 B

3.3

(a)

- $\begin{bmatrix} 0.5(100) + 0 \\ 0.5(100) + 1(0) \end{bmatrix} = \begin{bmatrix} 50 \\ 50 \end{bmatrix}$

(b)

- 50

(c)

- 50