

Figure value: 2.67

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$$\left(\begin{array}{ccccc} 1.33 & 8 & -1 & -2 & 1 \\ -2 & -11.67 & -2 & -4 & 0 \\ 0 & 10 & 2.33 & -10 & 0 \\ -1 & -13 & -14 & -15.67 & 6 \end{array} \right)$$

$R_4 \leftrightarrow R_1$

$$R_1 = (-1 \quad -13 \quad -14 \quad -15.67)$$

$$R_1 = \frac{1}{-1}(R_1)$$

$$R_1 = (1 \quad 13 \quad 14 \quad 15.67 \quad 1 \quad 0)$$

$$R_2 = R_2 + 2R_1$$

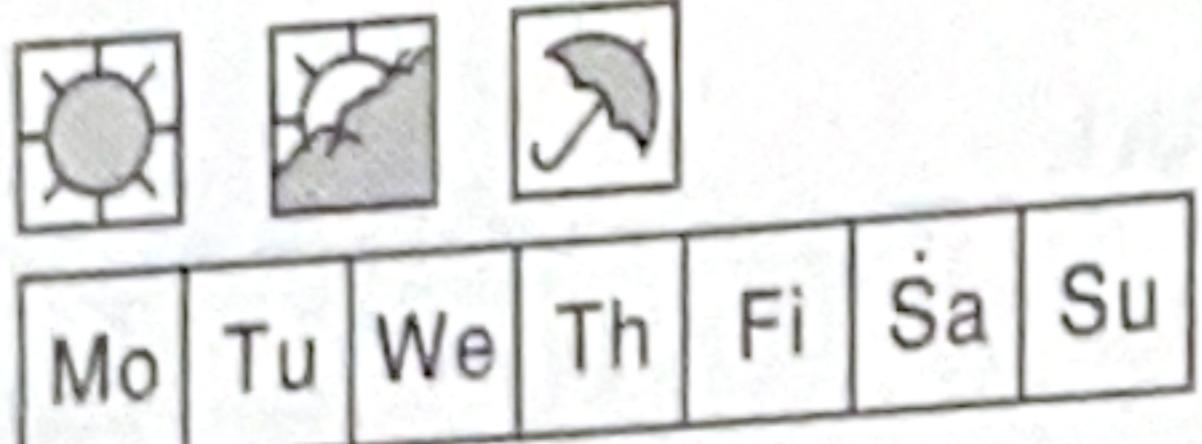
$$R_2 = (0 \quad 14.33 \quad 26 \quad 27.34 \quad 1 \quad 0)$$

$$R_2 = \frac{R_2}{14.33}$$

$$R_2 = (0 \quad 1 \quad 1.81 \quad 1.91 \quad 1 \quad 0)$$

$$\left(\begin{array}{ccccc} 1 & 13 & 14 & 15.67 & 1 \quad 0 \\ 0 & 1 & 1.81 & 1.91 & 1 \quad 0 \\ 0 & 10 & 2.33 & -10 & 1 \quad 0 \\ 1.33 & 8 & -1 & -2 & 1 \quad 0 \end{array} \right)$$

$$R_3 = R_3 + (-10R_2)$$



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$$R_3 = \begin{pmatrix} 0 & 0 & -15.77 & -29.1 & 1 & 0 \end{pmatrix}$$

$$R_3 = R_3 / -15.77$$

$$R_3 = \begin{pmatrix} 0 & 0 & 1 & 1.8519 \end{pmatrix}$$

$$R_4 = R_4 + -1.33 R_1$$

$$R_4 = \begin{pmatrix} 0 & -9.29 & -19.62 & -22.84 & 1 & 0 \end{pmatrix}$$

$$R_4 = R_4 + 9.29 R_2$$

$$R_4 = \begin{pmatrix} 0 & 0 & -2.845 & -5.10 & 1 & 0 \end{pmatrix}$$

$$R_4 = R_4 + 2.81 R_3$$

$$R_4 = \begin{pmatrix} 0 & 0 & 0 & 0.0985 \end{pmatrix}$$

$$R_4 = \begin{pmatrix} 0 & 0 & 0 & 0.10 \end{pmatrix}$$

$$\left(\begin{array}{cccc|c} 1 & 13 & 14 & 15.67 & 1 \\ 0 & 1 & 1.81 & 1.91 & 0 \\ 0 & 0 & 1 & 1.35 & 0 \\ 0 & 0 & 0 & 0.10 & 0 \end{array} \right)$$



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$$\text{let } N_4 = t$$

$$N_3 + 1.85t = 0$$

$$V_3 = -1.85t$$

$$N_2 + (-3.35t) + 1.91t = 0$$

$$N_2 = 1.44t$$

$$V_1 + 18.72t - 25.9t + 15.67t = 0$$

$$V_1 = -8.49t$$

With eigenvalue of $\lambda = 0.67$

$$V = \begin{pmatrix} 1 \\ -8.49 \\ 1.44 \\ -1.85 \\ 1 \end{pmatrix}$$