

# 12.566

EE25BTECH11032 - Kartik Lahoti

*Question:*

The product of the eigenvalues of the matrix

$$\begin{pmatrix} 2 & 3 \\ 0 & 7 \end{pmatrix}$$

is **Solution:**

For a Square Matrix **A**

$$|\mathbf{A}| = \text{Product of Eigen Values} \quad (0.1)$$

$$\begin{vmatrix} 2 & 3 \\ 0 & 7 \end{vmatrix} = 14 - 0 \quad (0.2)$$

Hence, Product of Eigen Values = 14