

# 1.1.10.23

EE24BTECH11018 - Durgi Swaraj Sharma

**Question:**

The direction cosines of the vector  $(2\hat{i} + 2\hat{j} - \hat{j})$  are \_\_\_\_\_.

**Solution:**

The unit vector in the direction of the given vector is

$$\mathbf{A} = \frac{1}{\sqrt{9}} \begin{pmatrix} 2 \\ 2 \\ -1 \end{pmatrix} \quad (0.1)$$

$$\mathbf{A} = \frac{1}{3} \begin{pmatrix} 2 \\ 2 \\ -1 \end{pmatrix} \quad (0.2)$$