## EE25BTECH11062 - Vivek K Kumar

## **Question:**

The direction cosines of the vector  $\begin{pmatrix} 2 \\ 2 \\ -1 \end{pmatrix}$  are \_\_\_\_\_

## **Solution:**

Name	Point
	(2)
A	
	(-1)

TABLE 0: Variables Used

The unit vector along the direction of given vector is

$$\frac{\mathbf{A}}{\|\mathbf{A}\|} = \frac{1}{3} \begin{pmatrix} 2\\2\\-1 \end{pmatrix} \tag{0.1}$$

$$= \begin{pmatrix} \frac{2}{3} \\ \frac{2}{3} \\ -\frac{1}{2} \end{pmatrix} \tag{0.2}$$

1

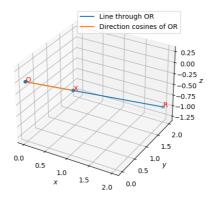


Fig. 0.1: Given vector and its direction cosines