## 1.1.2.2

## EE24BTECH11024 - G. Abhimanyu Koushik

## **Question:**

Find the values of x, y, z so that the vectors  $x\hat{i} + 2\hat{j} + z\hat{k}$  and  $2\hat{i} + y\hat{j} + \hat{k}$  are equal **Solution:** 

Variable	Description
$\mathbf{v}_1$	$x\hat{i} + 2\hat{j} + z\hat{k}$
$\mathbf{v}_2$	$2\hat{i} + y\hat{j} + \hat{k}$

TABLE 0: Variables Used

$$x = 2$$
  $y = 2$   $z = 1$  (0.2)

The values of x, y, z are 2, 2, 1 respectively.

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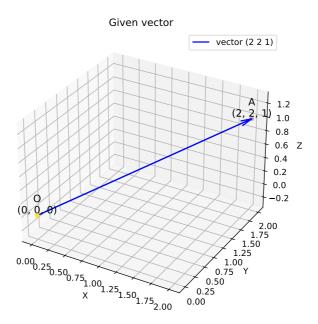


Fig. 0.1: Line segment represent the vector