

## 1.2.1

AI25BTECH11001 - ABHISEK MOHAPATRA

**Question:**

Find the values of  $x, y, z$  so that the vectors  $\begin{pmatrix} x \\ 2 \\ z \end{pmatrix}$  and  $\begin{pmatrix} 2 \\ y \\ 1 \end{pmatrix}$  are equal.

**Solution:** From the given information,

$$\begin{pmatrix} x \\ 2 \\ z \end{pmatrix} = \begin{pmatrix} 2 \\ y \\ 1 \end{pmatrix} \quad (1)$$

$$\Rightarrow x = 2, y = 2, z = 1 \quad (2)$$