

10.5.4

EE23BTECH11029 - Kanishk

Question:

The houses of a row are numbered consecutively from 1 to 49. Show that there is a value of x such that the sum of the numbers of the houses preceding the house numbered x is equal to the sum of the numbers of the houses following it. Find this value of x .

Hint: $S_{x-1} = S_{49} - S_x$

Solution: