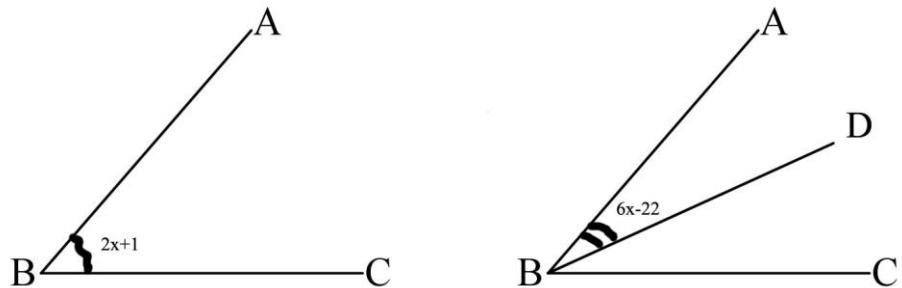


If angle ABC is bisected by line segment BD such that the measure of angle ABC = $2x+1$ and measure of angle ABD = $6x-22$. Find x

Solution:



$$\text{angle ABC} = 2 * \text{angle ABD}$$

$$2x + 1 = 2 * (6x - 22)$$

$$2x + 1 = 12x - 44$$

$$10x = 45$$

$$x = 4.5$$

Answer: $x = 4.5$