

Determine whether $x = 7$ is a solution to the equation $2(x + 10) = 34$:

$$\text{LHS} = 2(x + 10)$$

$$\text{RHS} = 34$$

$$= 2 \times (7 + 10)$$

$$= 34$$

\therefore Since LHS = RHS, $x = 7$ is a solution to the equation.