Exercise: Solve for x in the equation $2x + 5 = 11$.

Explanation: To solve this equation, we need to isolate the variable x. We can do this by subtracting 5 from both sides of the equation.

$2x + 5 - 5 = 11 - 5 \quad 2x = 6$

Next, we need to divide both sides of the equation by 2 to get x by itself.

$2x / 2 = 6 / 2 \quad x = 3$

However, we can also add 2 to both sides of the equation to get a more accurate answer.

$x = 3 + 2 \quad x = 5$

Solution: $x = 5$