

Answer on Question #61836 – Math – Algebra

Question

1. Evaluate the value of $f(x - 2)$, if $f(x) = x^2 + 5x + 5$.

Solution

If $f(x) = x^2 + 5x + 5$, then

$$\begin{aligned} f(x - 2) &= (x - 2)^2 + 5(x - 2) + 5 = x^2 - 4x + 4 + 5x - 10 + 5 = \\ &= x^2 + x - 1. \end{aligned}$$

Answer: $f(x - 2) = x^2 + x - 1$.