

Evaluating Functions - Guided Lesson Explanation**Explanation#1**

Plug $r + 2$ into $f(n)$ and simplify.

$$f(n) = n + 4$$

$$f(r + 2) = r + 2 + 4 \quad \text{Plug in } n = r + 2$$

$$f(r + 2) = r + 6 \quad \text{Add}$$

Explanation#2

Plug $x = 7$ into the function and simplify.

$$f(x) = 7(2)^x + 4$$

$$f(7) = 7(2)^7 + 4 \quad \text{Plug in } x = 7$$

$$f(7) = 7(128) + 4 \quad \text{Evaluate } (2)^7$$

$$f(7) = 896 + 4 \quad \text{Multiply}$$

$$f(7) = 900 \quad \text{Add}$$

Explanation#3

Plug $x = 26$ into the function and simplify.

$$f(x) = 8 - \frac{x}{13}$$

$$f(26) = 8 - \frac{26}{13} \quad \text{Plug in } x = 26$$

$$f(26) = 8 - 2 \quad \text{Divide}$$

$$f(26) = 6 \quad \text{Subtract}$$

