Exercise 37

For the following exercises, evaluate the expressions using the given variable.

$$\frac{1}{4}(8w - 4^2) \text{ for } w = 1$$

Solution

Simplify the given expression before plugging in $w = 1$.

$$\frac{1}{4}(8w - 4^2) = \frac{1}{4}(8w - 16)$$
$$= 2w - 4$$
$$= 2(1) - 4$$
$$= 2 - 4$$
$$= -2$$