Exercise 32

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

$$4y(7 - 2)^2 + 200 \text{ for } y = -2$$

Solution

Simplify the given expression before plugging in $y = -2$.

$$\begin{aligned}
4y(7 - 2)^2 + 200 &= 4y(5)^2 + 200 \\
&= 4y(25) + 200 \\
&= 100y + 200 \\
&= 100(-2) + 200 \\
&= -200 + 200 \\
&= 0
\end{aligned}$$