Exercise 25

In the following exercises, simplify each expression.

$$3(1 + 9 \cdot 6) - 4^2$$

Solution

Remember the order of operations: parentheses, exponents, multiplication, division, addition, subtraction.

$$
\begin{aligned}
3(1 + 9 \cdot 6) - 4^2 &= 3(1 + 54) - 4^2 \\
&= 3(55) - 4^2 \\
&= 3(55) - 16 \\
&= 165 - 16 \\
&= 149
\end{aligned}
$$