

Exercise 30

In the following exercises, simplify each expression.

$$10 + 3[6 - 2(4 - 2)] - 2^4$$

Solution

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

$$\begin{aligned} 10 + 3[6 - 2(4 - 2)] - 2^4 &= 10 + 3[6 - 2(2)] - 2^4 \\ &= 10 + 3[6 - 4] - 2^4 \\ &= 10 + 3[2] - 2^4 \\ &= 10 + 3[2] - 16 \\ &= 10 + 6 - 16 \\ &= 16 - 16 \\ &= 0 \end{aligned}$$