

Exercise 29

In the following exercises, simplify each expression.

$$8 + 2[7 - 2(5 - 3)] - 3^2$$

Solution

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

$$\begin{aligned} 8 + 2[7 - 2(5 - 3)] - 3^2 &= 8 + 2[7 - 2(2)] - 3^2 \\ &= 8 + 2[7 - 4] - 3^2 \\ &= 8 + 2[3] - 3^2 \\ &= 8 + 2[3] - 9 \\ &= 8 + 6 - 9 \\ &= 14 - 9 \\ &= 5 \end{aligned}$$