Exercise 100

In the following exercises, simplify each expression.

$$\text{(a) } (-3)^5 \quad \text{(b) } -3^5$$

Solution

(a) $(-3)^5 = (-3)(-3)(-3)(-3)(-3) = -3(9)(9) = -3(81) = -243$

(b) $-3^5 = -(3)(3)(3)(3)(3) = -3(9)(9) = -3(81) = -243$