

**Exercise 99**

In the following exercises, simplify each expression.

$$(a) (-2)^6 \quad (b) -2^6$$

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**Solution**

$$(a) (-2)^6 = (-2)(-2)(-2)(-2)(-2)(-2) = (4)(4)(4) = 64$$

$$(b) -2^6 = -(2)(2)(2)(2)(2)(2) = -64$$