

# 累乗根の性質

$a > 0$ ,  $b > 0$ ,  $m$ ,  $n$  が正の整数のとき

$$(1) \quad \sqrt[n]{a}\sqrt[n]{b} = \sqrt[n]{ab}$$

$$(2) \quad \frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \sqrt[n]{\frac{a}{b}}$$

$$(3) \quad \left(\sqrt[n]{a}\right)^m = \sqrt[n]{a^m}$$

$$(4) \quad \sqrt[m]{\sqrt[n]{a}} = \sqrt[mn]{a}$$