

## 4-2 거듭제곱과 거듭제곱근

### ① 거듭제곱

$$a^n = a \times a \times a \dots$$

$$\cdot a^0 = 1$$

$$\cdot a^1 = a$$

$$\cdot a^{-n} = \frac{1}{a^n}$$

### ② 거듭제곱근 성질

$$\cdot \sqrt[n]{a} \sqrt[n]{b} = \sqrt[n]{ab} \quad \cdot \sqrt[m]{\sqrt[n]{a}} = \sqrt[mn]{a}$$

$$\cdot \frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \sqrt[n]{\frac{a}{b}}$$

$$\cdot (\sqrt[n]{a})^m = \sqrt[n]{a^m}$$

$$\cdot \sqrt[n]{a^m} = \sqrt[n]{a^m}$$