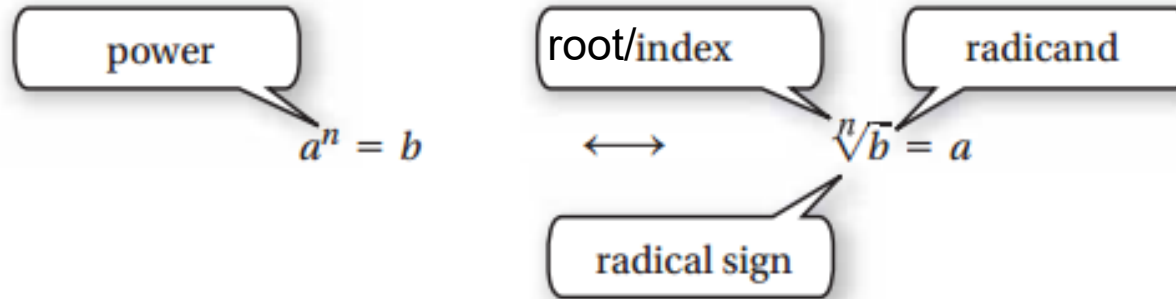


6-1 Roots and Radical Expressions



Recall square roots:



Tip: Rewrite the expression so that the exponent matches the index (root).

Simplify completely.

$$\sqrt[3]{8} = \boxed{}$$

Simplify completely.

$$\sqrt[4]{\frac{1}{625}} = \boxed{}$$

Simplify completely.

$$\sqrt[6]{-729} =$$



Simplify completely.

$$\sqrt[4]{16x^4} =$$



Simplify completely.

$$\sqrt[4]{\frac{(x-2)^8}{(y+4)^4}} =$$



Simplify completely.

$$\sqrt[3]{27x^3y^6} =$$



Simplify completely.

$$\sqrt[6]{-x^{12}y^{36}} =$$



Simplify completely.

$$\sqrt[6]{x^{12}y^{36}} =$$

