

Accuplacer Study Modules

TOPIC: Simplifying Radical Expressions

Instructions: Simplify each expression.

1. $\sqrt{20a^5b^2}$

$a \cdot a \cdot a \cdot a \cdot a$
 $b \cdot b$

$2a^2b\sqrt{5a}$

2. $\sqrt{50x^3y}$

$\sqrt{25 \cdot 2}$
 $\sqrt{x^2 \cdot x \cdot y}$
 $\sqrt{25} \cdot \sqrt{x^2} \cdot \sqrt{2} \cdot \sqrt{x} \cdot \sqrt{y}$

$5x\sqrt{2xy}$

3. $\sqrt[3]{24x^6y^3}$

$x \cdot x \cdot x \cdot x \cdot x \cdot x$
 $y \cdot y \cdot y$

$2x^2y\sqrt[3]{3}$

4. $\sqrt[4]{32a^6b^5}$

$\sqrt[4]{16} \cdot \sqrt[4]{2} \cdot \sqrt[4]{a^4} \cdot \sqrt[4]{a^2} \cdot \sqrt[4]{b^4} \cdot \sqrt[4]{b}$

$2ab\sqrt[4]{2a^2b}$