

NAME _____

Module 17 Simplifying Radical Expressions
Lesson 2 Adding and Subtracting Radicals

guided notes

Lesson Objective

- Add and subtract radical expressions.

1 Simplify: $6\sqrt{5} - 2\sqrt{5} - 3\sqrt{5}$ $\sqrt{5}$ _____

2 Simplify: $\sqrt[3]{4} - 2\sqrt[3]{4} + 5\sqrt[3]{4}$ $4\sqrt[3]{4}$ _____

Like radicals are radicals that have the same **radicand** _____ and the same **index** _____.

To add or subtract like radicals, add or subtract the **coefficients** _____, and keep the **radicals** _____ the same.

3 Simplify: $4\sqrt{5} + 3\sqrt{6} - 3\sqrt{5} + 2\sqrt{6}$ $\sqrt{5} + 5\sqrt{6}$ _____

4 Simplify: $-\sqrt{20} - 2\sqrt{5} + \sqrt{80}$ 0 _____

5 Simplify: $\sqrt{12x^2} - \sqrt{27x^2}$ $-\sqrt{3}|x|$ _____

