

## MAT0028 ~ Lesson 41

Work the following examples as you listen to the recorded lecture.

### Adding and Subtracting Radicals

Example 1:  $4\sqrt{3} - 8\sqrt{3}$

Example 2:  $3\sqrt{6} + 8\sqrt{6} - 2\sqrt{6} - 5$

Example 3:  $\sqrt{11} + \sqrt{11} + 11$

Example 4:  $6\sqrt{5} - 5\sqrt{5} + \sqrt{2}$

Example 5:  $\sqrt[3]{18} + \sqrt[3]{18} - 4\sqrt[3]{18}$

Example 6:  $\sqrt{8} + \sqrt{9} + \sqrt{18} + \sqrt{81}$

Example 7:  $2\sqrt{45} - 2\sqrt{20}$

Example 8:  $5\sqrt{x} + 4\sqrt{4x} - 13\sqrt{x}$

Example 9:  $\sqrt{3x^3} + 3x\sqrt{x}$

Example 10:  $\sqrt[3]{81} + \sqrt[3]{24}$