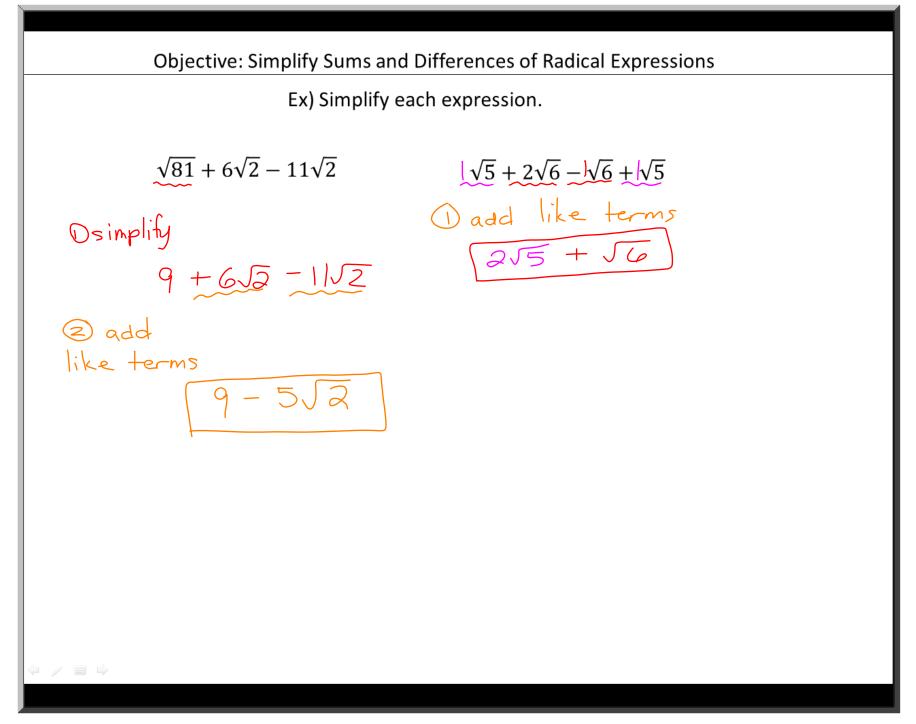
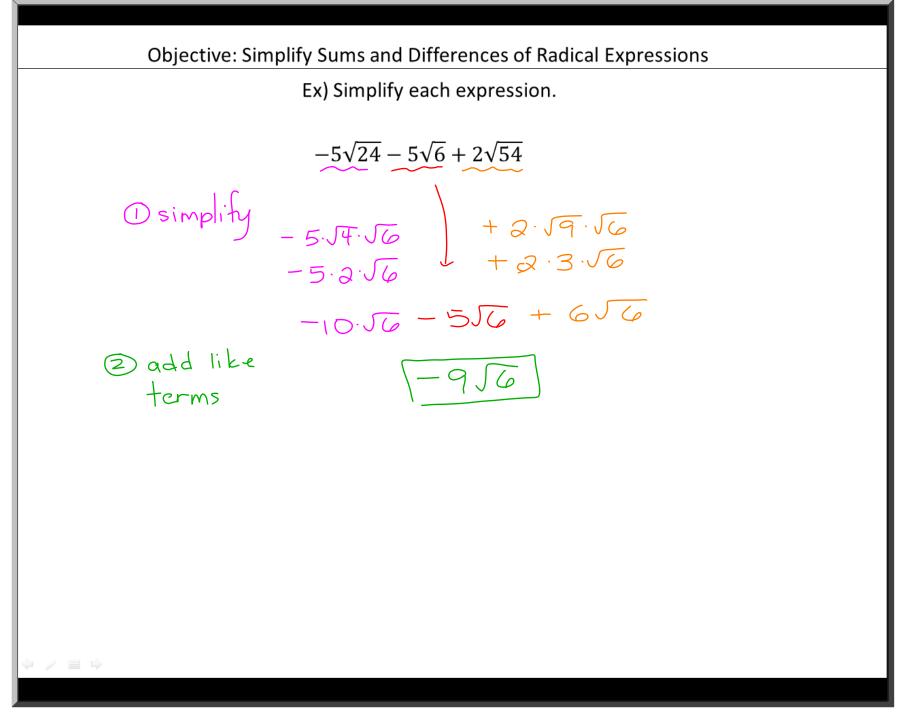
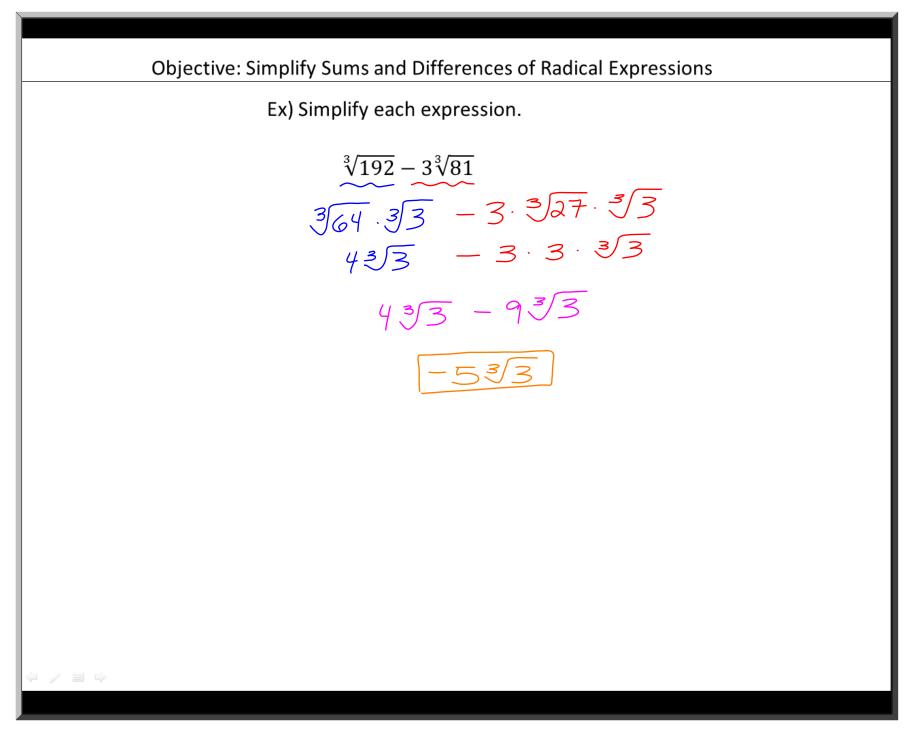
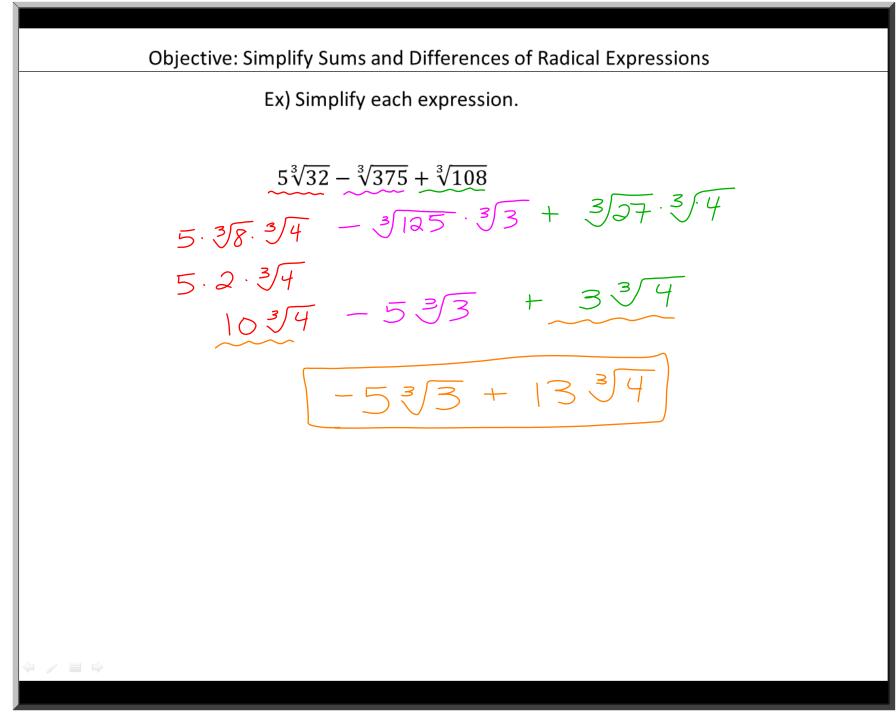


Captured on Thu Oct 26 2017 11:02:55









Objective: Simplify Sums and Differences of Radical Expressions

<u>Closure</u>

Becky simplified the following radical expression. Do you agree or disagree with her answer? Why?

Becky's Work:

$$\sqrt[3]{24} + 2\sqrt{12}
= \sqrt[3]{8} \cdot \sqrt[3]{3} + 2 \cdot \sqrt{4} \cdot \sqrt{3}
= 2 \cdot \sqrt[3]{3} + 2 \cdot 2 \cdot \sqrt{3}
= 2\sqrt[3]{3} + 4\sqrt{3}
= 6\sqrt[3]{3}$$

Becky's work is incorrect because she combined a square root term and a cubic root term, which are not like terms, in the last step. The correct answer is $2\sqrt[3]{3} + 4\sqrt{3}$.