

The Secret of Adding and Subtracting Radical Expressions

Lesson 012 | Algebra I | Adding and subtracting radicals

https://www.youtube.com/watch?v=XYDSHT_JV8M

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01 Simplify $13\sqrt{28} - 8\sqrt{63} + \sqrt{63}$.

02 Simplify $9\sqrt{8} - 6\sqrt{18} + \sqrt{98}$.

03 Simplify $8\sqrt{8} - 5\sqrt{18} + \sqrt{72}$.

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Name: _____ Date: _____ Show your reasoning.

04

Simplify $2\sqrt{32} - 4\sqrt{72} + \sqrt{72}$.

05

Simplify $4\sqrt{32} - 13\sqrt{72} + \sqrt{200}$.

06

Simplify $8\sqrt{40} - 9\sqrt{90} + \sqrt{250}$.

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01 Simplify $13\sqrt{(28)} - 8\sqrt{(63)} + \sqrt{(63)}$.

Extract squares: $(26-24+3)\sqrt{7}=5\sqrt{7}=5\cdot\sqrt{(7)}$.

02 Simplify $9\sqrt{(8)} - 6\sqrt{(18)} + \sqrt{(98)}$.

Extract squares: $(18-18+7)\sqrt{2}=7\sqrt{2}=7\cdot\sqrt{(2)}$.

03 Simplify $8\sqrt{(8)} - 5\sqrt{(18)} + \sqrt{(72)}$.

Extract squares: $(16-15+6)\sqrt{2}=7\sqrt{2}=7\cdot\sqrt{(2)}$.

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04 Simplify $2\sqrt{32} - 4\sqrt{72} + \sqrt{72}$.

Extract squares: $(4-12+3)\sqrt{8} = -5\sqrt{8} = -10\sqrt{2}$.

05 Simplify $4\sqrt{32} - 13\sqrt{72} + \sqrt{200}$.

Extract squares: $(8-39+5)\sqrt{8} = -26\sqrt{8} = -52\sqrt{2}$.

06 Simplify $8\sqrt{40} - 9\sqrt{90} + \sqrt{250}$.

Extract squares: $(16-27+5)\sqrt{10} = -6\sqrt{10} = -6\sqrt{10}$.