

11.2 continued: Adding and Subtracting Radicals

Goals: *Add radicals

*Subtract radicals

Radicals are like terms when:

Add or subtract:

Ex: $4\sqrt{10} + \sqrt{13} - 9\sqrt{10}$

Ex: $5\sqrt{3} + \sqrt{48}$

Ex: $7\sqrt{14} + \sqrt{21} - 4\sqrt{14}$

Ex: $2\sqrt{7} + 3\sqrt{63}$

Ex: $2\sqrt{7} + \sqrt{28}$

Multiply:

Ex: $\sqrt{5}(4 - \sqrt{20})$

Ex: $\sqrt{3}(2 + \sqrt{12})$

Ex: $(\sqrt{7} + \sqrt{2})(\sqrt{7} - 3\sqrt{2})$

Ex: $(\sqrt{2} + \sqrt{5})(\sqrt{2} - 3\sqrt{5})$