8.4 Adding and Subtracting Radical Expressions
Exercises 11, 17, 21, 25, 29, 37, 49-57odd
8.5 Multiplying and Dividing Radical Expressions
Exercises 13, 15, 21-29 odd, 49, 51, 61, 71, 73, 83, 86, 89, 99, 105

Note Title 5/17/2016

11. $\sqrt[4]{32} + 3\sqrt[4]{2}$ $2^{5/4} + ($ $2^{4/4} \cdot 2^{1/4} +$ $2\sqrt[4]{2} + 3\sqrt[4]{2} = 5\sqrt[4]{2}$

17. $2\sqrt{5} + 3\sqrt{20} + 4\sqrt{45}$ $2\sqrt{5} + 3\sqrt{4/5} + 4\sqrt{9}\sqrt{5}$ $2\sqrt{5} + 3\cdot 2\sqrt{5} + 4\cdot 3\sqrt{5}$ $2\sqrt{5} + 6\sqrt{5} + 12\sqrt{5} = 20\sqrt{5}$

57. $3\sqrt[3]{\frac{2}{\chi^6}} - \sqrt[4]{\frac{3}{\chi^9}}$

3.2 1/3 - 4.5 1/3 - 9/3 x -2 X -3

 $\frac{3.1}{2}$ $\frac{3}{2}$ $\frac{$

 $\frac{1}{x^3} \left(3x \sqrt[3]{2} - 4\sqrt[3]{5} \right)$

25. $2\sqrt[3]{27} \times -2\sqrt[3]{8} \times$ $2\sqrt[3]{3} \times -2\sqrt[3]{2} \times$ $2\sqrt[3]{3} \times -2\sqrt[3]{2} \times$ $2\sqrt[3]{3} \times -2\sqrt[3]{2} \times$ $6\sqrt[3]{x} - 4\sqrt[3]{x} = 2\sqrt[3]{x}$

$$3. (12 - 13)(12 + 13) = 2 + 16 - 16 - 3 = -1$$

$$\frac{61}{100} - \frac{3}{100} = \frac{150m^5}{100} - \frac{125\sqrt{6}\sqrt{m^4\sqrt{m}}}{\sqrt{n^2\sqrt{n}}} - \frac{5m^2\sqrt{6m\sqrt{n}}}{\sqrt{n\sqrt{m}}} = \frac{150m\sqrt{n}}{\sqrt{n}} = \frac{150m\sqrt{n}}{\sqrt{n}}$$

$$\rightarrow -5m^2\sqrt{6mn}$$

$$\frac{7}{\sqrt{9}} = \frac{\sqrt[3]{2^2} \sqrt[3]{3}}{\sqrt[3]{3^2} \sqrt[3]{3^2}} = \frac{\sqrt[3]{2^2 \cdot 3}}{\sqrt[3]{3^3}} = \frac{\sqrt[3]{12}}{\sqrt[3]{3^3}}$$