Radical Expressions

Ex: $\sqrt{50} = \sqrt{25}\sqrt{2}$

$5\sqrt{2}$

Ex: $\sqrt[3]{24} = \sqrt[3]{8}\sqrt{3}$

$2\sqrt{3}$

Ex: $\sqrt{x^5} = \sqrt{x^4}\sqrt{x}$

$x^2\sqrt{x}$

Ex: $\sqrt[3]{x^{11}} = x^3\sqrt[3]{x^2}$

$\sqrt[3]{x^9}\cdot\sqrt[3]{x^2}$

$x^3\sqrt[3]{x^2}$

Ex $\sqrt{x^7y^6z^3} = x^3y^3z\sqrt{xz}$

Ex: $\sqrt[4]{x^{12}z^{15}y^5} = x^3z^3y\sqrt{z^3y}$

Ex: $\sqrt[3]{54a^3b^7}$

$\sqrt[3]{27}\sqrt[3]{2}$

$= 3\sqrt[3]{2}$

$3ab^2\sqrt[3]{2b}$

Ex: $\sqrt{98y^4}$

$\sqrt{49}\sqrt{2}$

$7y^2\sqrt{2}$

Ex: $\sqrt{8a^2b^3}$

$\sqrt{4}\sqrt{2}\sqrt{a^2}\sqrt{b^2}\sqrt{b}$

$2ab\sqrt{2b}$