1











What happens if there is a <u>power</u> under the radical?			
$\sqrt[5]{x^2y} \rightarrow$			
$6\sqrt[3]{3m^2} \rightarrow$			
How did we show that the <u>index number</u> applied to the <u>entire product</u> (including the power) when re-written in "power form"?			
Power of a product \rightarrow product <u>inside parentheses</u> with an exponent.			



Write the follow	ing radicals as powers.	
$\sqrt[2]{3m}$	\rightarrow	
$4\sqrt[3]{5y}$	\rightarrow	
$3m\sqrt[4]{6n}$	\rightarrow	
$\sqrt[5]{x^3y^2}$	\rightarrow	
$5\sqrt[4]{3m^2}$	\rightarrow	







Negative Exponent Property
Grab and drag same-based powers to be next to each other.
$\frac{x^2 y^{\frac{2}{3}}}{y^{-\frac{1}{2}}} = x^2 y^{\frac{2}{3}} y^{\frac{1}{2}} = x^2 y^{\frac{2}{3}+\frac{1}{2}} = x^2 y^{\frac{4}{6}+\frac{3}{6}} = x^2 y^{\frac{7}{6}}$
$\frac{2x^{\frac{1}{3}}}{x^{\frac{2}{3}}} \to \frac{2}{x^{\frac{2}{3}}x^{-\frac{1}{3}}} \to \frac{2}{x^{\frac{1}{3}}} \xrightarrow{\text{Not allowed to have rational}} \exp(x^{\frac{1}{3}}) + \exp(x^{$
$\rightarrow 2x^{-1/3}$ Not allowed to have negative exponents.

