$$
\begin{array}{l|l}
\sqrt{x^{8}}=\left(x^{8}\right)=x^{4} & \left.\sqrt[2]{x^{1}}=x^{(12}\right) \\
\sqrt[3]{y^{15}}=y^{5} & \sqrt[3]{y}=y^{1 / 3} \\
\sqrt[5]{z^{15}}=z^{3} & \sqrt[7]{z}=z^{1 / 3}
\end{array}
$$

radical ration exp.

$$
w^{1 / 4}=\sqrt[4]{w}
$$

$$
a^{1 / s}=\sqrt[8]{a}
$$

Evaluate

$$
\begin{aligned}
\text { Evaluate } & 81^{1 / 4}
\end{aligned}=\sqrt[4]{81}=3
$$

$$
\begin{aligned}
& \sqrt[3]{x^{2}}=x^{2 / 3} \\
& \sqrt[9]{z^{5}}=z^{5 / 7} \\
& \text { Key Concept } w^{3 / 416}=\sqrt[3]{w^{3}} \\
& \sqrt[n]{x^{m}}=x^{m / n}
\end{aligned}
$$

Evaluate

$$
243^{3 / 5}=\sqrt[5]{243^{3}}=27
$$

$$
\begin{aligned}
& x^{2} \cdot x^{7}=x^{9} \\
& \left(x^{2}\right)^{4}=x^{8} \\
& \frac{x^{8}}{x^{6}}=x^{2} \\
& x^{\frac{1}{3}} \cdot x^{\frac{4}{3}}=x^{\frac{5}{3}} \\
& y^{\frac{5}{7}} \cdot y^{\frac{2}{7}}=y^{\frac{7}{7}}=y \\
& \frac{x^{\frac{1}{3}} \cdot x^{\frac{5}{3}}}{x^{\frac{2}{3}}}=\frac{x^{\frac{6}{3}}}{x^{\frac{2}{3}}}=x^{\frac{4}{3}}
\end{aligned}
$$

$$
\begin{aligned}
& p .420-421 \\
& 18-22,24-27,30-38,61-62
\end{aligned}
$$

due tomorrow

