Opener

Simplify:

$$\begin{array}{c}
0 & \sqrt{121 \times^3} \\
\sqrt{121 \times^2} \times \\
11 \times \sqrt{1}
\end{array}$$

$$3\sqrt{\frac{5}{X^2}} = \frac{\sqrt{5}}{\sqrt{X^2}} = \frac{\sqrt{5}}{X}$$

$$4)$$
 $3\sqrt{2} - \sqrt{128}$
 $3\sqrt{2} - \sqrt{64 \cdot 2}$
 $3\sqrt{2} - 8\sqrt{2}$
 $-5\sqrt{2}$

Adding & Subtracting Fractions w/ Padicals

$$\frac{5\cdot 3+6}{\sqrt{27}}$$

$$\frac{15+6}{\sqrt{9\cdot3}} = \frac{21}{3\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$$

$$= \frac{21\sqrt{3}}{3 \cdot 3}$$

$$= \frac{121\sqrt{3}}{93} = \frac{1\sqrt{3}}{3}$$

$$\begin{array}{c}
5 & \sqrt{7} \\
\sqrt{X^5} & -\frac{X}{\sqrt{X^3}} \cdot \sqrt{X^2}
\end{array}$$

$$\frac{2\sqrt{20} - 3\sqrt{3}}{\sqrt{120}}$$

$$\frac{2\sqrt{4\cdot5}-3\sqrt{3}}{\sqrt{4\cdot30}}$$

$$\begin{array}{c|c}
2\sqrt{30} \\
(4\sqrt{5} - 3\sqrt{3}) \overline{\sqrt{30}} \\
2\sqrt{30} \overline{\sqrt{30}}
\end{array}$$

$$4\sqrt{150 - 3\sqrt{90}} = 4\sqrt{25 \cdot 6} - 3\sqrt{9 \cdot 10}$$

$$2 \cdot 30 = 60$$

$$=4.5\sqrt{6}-3.3\sqrt{0}$$

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1- V V2

$$\begin{array}{c|cccc}
X & \sqrt{X^{3}} \\
\hline
5\sqrt{X^{2}} & -7\sqrt{X} \\
\hline
5X & -7\sqrt{X} \\
\hline
5X & -7\sqrt{X} \\
\hline
25X & -7X \\
\hline
X & -7 \\
X & -7 \\
\hline
X & -7 \\
X & -7$$

