Add / Subtracting Radicals
You can only +1 - like radicals
$\rightarrow$ same index
$\rightarrow$ same radicand $d \stackrel{i n d e x}{\longrightarrow} \sqrt[5]{23}$

Tradiand

$$
\begin{aligned}
& 2 \sqrt{7}+3 \sqrt{7}=5 \sqrt{7} \\
& 6 \sqrt{2}-3 \sqrt{5}+4 \sqrt{2} \\
& =10 \underset{\text { apples }}{\sqrt{2}}-3 \sqrt{\sqrt{5}} \\
& \text { oranges } \\
& 2 \sqrt{2}-4 \sqrt{50} \\
& \downarrow \\
& 2 \sqrt{2}-4.5 \sqrt{2} \\
& 2 \sqrt{2}-20 \sqrt{2}=-18 \sqrt{2}
\end{aligned}
$$

Try

$$
2+3+6=11
$$

(1) $2 \sqrt{5}+3 \sqrt{5}+6 \sqrt{5}=\frac{11 \sqrt{5}}{1+1+1=3}$
(2) $\sqrt{5}+\sqrt{5}+\sqrt{5}=3 \sqrt{5}$
(3) $2 \sqrt{2}-3 \sqrt{10}+5 \sqrt{2}-4 \sqrt{10}=7 \sqrt{2}-7 \sqrt{10}$
(4) $\sqrt{12}+\sqrt{27}=2 \sqrt{3}+3 \sqrt{3}=5 \sqrt{3}$
$(5)$

$$
\begin{aligned}
& \sqrt{50}+\sqrt{98}-\sqrt{2}+6 \sqrt{7} \\
& \sqrt{25 \cdot 2}+1 \\
& 5 \sqrt{29.2}+7 \sqrt{2}-\sqrt{2}+6 \sqrt{7}=11 \sqrt{2}+6 \sqrt{7}
\end{aligned}
$$

(6)

$$
\begin{aligned}
& 8 \sqrt{7}+2 \sqrt{28} \\
& 8 \sqrt{7}+2 \cdot 2 \sqrt{7} \\
& 8 \sqrt{7}+4 \sqrt{7}=12 \sqrt{7}
\end{aligned}
$$

