

# Reteach: Adding and

# Subtracting Rads

$$\begin{array}{r}
 \textcircled{1} \quad 2\sqrt{6} - 3\sqrt{24} \\
 \downarrow \qquad \qquad \downarrow \\
 \qquad \qquad -3\sqrt{4 \cdot 6} \\
 \qquad \qquad -3\sqrt{4}\sqrt{6} \\
 \qquad \qquad \downarrow \\
 \qquad \qquad -3 \cdot 2\sqrt{6} \\
 \underline{2\sqrt{6}} \quad \underline{-6\sqrt{6}} \\
 \boxed{-4\sqrt{6}}
 \end{array}$$

$$\begin{array}{r}
 \textcircled{2} \quad \textcircled{6}\sqrt{7} + \textcircled{2}\sqrt{7} \\
 \hline
 \boxed{8\sqrt{7}}
 \end{array}$$

$$\begin{array}{r}
 \textcircled{3} \quad 8\sqrt{3} - 3\sqrt{3} \\
 \hline
 \boxed{5\sqrt{3}}
 \end{array}$$

$$\begin{array}{r}
 \textcircled{4} \quad \sqrt{12} - \sqrt{3} + 4\sqrt{3} \\
 \sqrt{4 \cdot 3} \\
 \textcircled{2}\sqrt{3} - 1\sqrt{3} + 4\sqrt{3} \\
 \hline
 \boxed{5\sqrt{3}}
 \end{array}$$

$$\begin{array}{r}
 \textcircled{5} \quad \underline{3\sqrt{5}} - \cancel{10\sqrt{5}} + \cancel{10\sqrt{5}} \\
 \hline
 \boxed{3\sqrt{5}}
 \end{array}$$

$$\begin{array}{r}
 \textcircled{6} \quad 2\sqrt{6} + 3\sqrt{54} + \sqrt{6} \\
 \quad \quad + 3\sqrt{9 \cdot 6} \\
 \quad \quad + 3\sqrt{9}\sqrt{6} \\
 \quad \quad + 3 \cdot 3\sqrt{6} \\
 \underline{2\sqrt{6}} + \underline{9\sqrt{6}} + \underline{1\sqrt{6}} \\
 \boxed{12\sqrt{6}}
 \end{array}$$