

## Addition and Subtraction of Radicals

1.  $\sqrt[3]{48} + 2\sqrt[3]{6} - 5\sqrt[6]{36}$

2.  $x\sqrt{11} - 2y\sqrt{11} + 6\sqrt{11}$

3.  $\sqrt[4]{243} - 2\sqrt[4]{3}$

4.  $3x\sqrt{16x^3} - 2x^2\sqrt{x} + \sqrt[5]{x^3}$

5.  $5\sqrt[3]{64x^5y} - 3\sqrt[3]{27x^2y}$

6.  $\sqrt[4]{80} + \sqrt[4]{\frac{1}{125}} - \sqrt[8]{25}$

7.  $\sqrt[3]{250x^5y} - \sqrt[6]{256x^4y^2} + \sqrt[3]{54x^8y}$

8.  $\sqrt[5]{64x^{-3}} + \sqrt[5]{-180x^7}$

9.  $x\sqrt{x} - \sqrt{4x^3} + \sqrt{9x}$

10.  $\sqrt[3]{5} - \sqrt[3]{40} + 3\sqrt[6]{25}$

11.  $\sqrt{\frac{4}{3}} + \sqrt{75} - \sqrt{\frac{12}{25}}$

12.  $3\sqrt{\frac{1}{7}} + \sqrt{112} + \sqrt{63}$

13.  $2\sqrt[3]{125x^4y} - 5\sqrt[3]{27xy^4}$

14.  $\sqrt[4]{48} + \sqrt[4]{\frac{1}{27}} - \sqrt[3]{9}$

15.  $\sqrt{\frac{x}{7y}} - \frac{3}{\sqrt{7xy}} + \sqrt[4]{\frac{49y^2}{x^2}}$

16.  $3\sqrt[3]{24} - \sqrt[3]{81} + \sqrt[3]{54}$

17.  $4\sqrt[3]{81x^4y^2} - 2x\sqrt[6]{576x^8y^4} + \sqrt[3]{24x^4y^2}$

18.  $\sqrt{27x^4 - 54x^3 + 27x^2} - \sqrt{75} + \sqrt{12x^4}$