

Name:

Date: Score:

Adding and Subtracting Radical Expressions

① $-\sqrt{12} + \sqrt[3]{3}$

② $\sqrt[5]{3} - \sqrt{12}$

③ $2\sqrt{11} + 4\sqrt{11}$

④ $-\sqrt[3]{27} - \sqrt[3]{8}$

⑤ $\sqrt{5} + \sqrt[5]{32} - \sqrt[5]{200}$

⑥ $-\sqrt[3]{3} - \sqrt{8} - \sqrt[3]{3}$

⑦ $-\sqrt{27} - \sqrt[3]{45} - \sqrt{20} + \sqrt{45}$

⑧ $\sqrt[3]{5} + \sqrt{5} + \sqrt{5}$

⑨ $\sqrt[3]{24} - \sqrt{54} + \sqrt{6}$

⑩ $\sqrt[3]{27} + \sqrt[4]{20} - \sqrt{300}$

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Answers

$$\boxed{1} \quad -\sqrt{12} + \sqrt[3]{3}$$

$$\boxed{2} \quad \sqrt[5]{3} - \sqrt{12}$$

$$-2\sqrt{3} + \sqrt[3]{3}$$

$$\sqrt[5]{3} - 2\sqrt{3}$$

$$\boxed{3} \quad 2\sqrt{11} + 4\sqrt{11}$$

$$\boxed{4} \quad -\sqrt[3]{27} - \sqrt[3]{8}$$

$$6\sqrt{11}$$

$$-5$$

$$\boxed{5} \quad \sqrt{5} + \sqrt[5]{32} - \sqrt[5]{200}$$

$$\boxed{6} \quad -\sqrt[3]{3} - \sqrt{8} - \sqrt[3]{3}$$

$$\sqrt{5} + 2 - \sqrt[5]{200}$$

$$-2\sqrt[3]{3} - 2\sqrt{2}$$

$$\boxed{7} \quad -\sqrt{27} - \sqrt[3]{45} - \sqrt{20} + \sqrt{45}$$

$$\boxed{8} \quad \sqrt[3]{5} + \sqrt{5} + \sqrt{5}$$

$$-3\sqrt{3} - \sqrt[3]{45} + \sqrt{5}$$

$$\sqrt[3]{5} + 2\sqrt{5}$$

$$\boxed{9} \quad \sqrt[3]{24} - \sqrt{54} + \sqrt{6}$$

$$\boxed{10} \quad \sqrt[3]{27} + \sqrt[4]{20} - \sqrt{300}$$

$$2\sqrt[3]{3} - 2\sqrt{6}$$

$$3 + \sqrt[3]{20} - 10\sqrt{3}$$