

Name:

Date: Score:

Add and Subtract Radicals

① $-9\sqrt{15} + 10\sqrt{15}$

② $2\sqrt{5} + 4\sqrt{5}$

③ $\sqrt{12} + \sqrt{27} - \sqrt{3}$

④ $-3\sqrt{10} + 5\sqrt{7} - 2\sqrt{10}$

⑤ $\sqrt[4]{24} - \sqrt[5]{160} - \sqrt{24}$

⑥ $-\sqrt[11]{21} - \sqrt[11]{21}$

⑦ $-\sqrt{18} - \sqrt{6} - \sqrt{8}$

⑧ $-\sqrt{45} - \sqrt{5}$

⑨ $-\sqrt[3]{2} + \sqrt[3]{20} - \sqrt[3]{8}$

⑩ $\sqrt[5]{27} + \sqrt[6]{3} - \sqrt[4]{48}$

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Answers

① $-9\sqrt{15} + 10\sqrt{15}$

② $2\sqrt{5} + 4\sqrt{5}$

$\sqrt{15}$

$6\sqrt{5}$

③ $\sqrt{12} + \sqrt{27} - \sqrt{3}$

④ $-3\sqrt{10} + 5\sqrt{7} - 2\sqrt{10}$

$4\sqrt{3}$

$-5\sqrt{10} + 5\sqrt{7}$

⑤ $\sqrt[4]{24} - \sqrt[5]{160} - \sqrt{24}$

⑥ $^{-1}\sqrt[2]{21} - ^{-1}\sqrt[2]{21}$

$\sqrt[4]{24} - 2\sqrt{5} - 2\sqrt{6}$

$-2^{\sqrt[2]{21}}$

⑦ $-\sqrt{18} - \sqrt{6} - \sqrt{8}$

⑧ $-\sqrt{45} - \sqrt{5}$

$-5\sqrt{2} - \sqrt{6}$

$-4\sqrt{5}$

⑨ $-\sqrt[3]{2} + \sqrt[3]{20} - \sqrt[3]{8}$

⑩ $\sqrt[5]{27} + \sqrt[6]{3} - \sqrt[4]{48}$

$-\sqrt[3]{2} + \sqrt[3]{20} - 2$

$\sqrt[5]{27} + \sqrt[6]{3} - 2\sqrt[4]{3}$