

Name:

Date: Score:

Operations with Radicals

Simplify each expression

① $2\sqrt{6} - 2\sqrt{6}$

② $-3\sqrt{15} + 4\sqrt{15}$

③ $2\sqrt{6} - 2\sqrt{24}$

④ $\sqrt{24} + \sqrt{24} + \sqrt{54}$

⑤ $-\sqrt{7} - \sqrt{7}$

⑥ $\sqrt{88} - \sqrt{88}$

⑦ $13\sqrt{5} + 14\sqrt{5}$

⑧ $\frac{-4\sqrt{28}}{\sqrt{4}}$

⑨ $2\sqrt{8} - \sqrt{8}$

⑩ $-3\sqrt{12} + 3\sqrt{3} + 3\sqrt{20}$

⑪ $-3\sqrt{5} \cdot \sqrt{20}$

⑫ $-3\sqrt{9} - 3\sqrt{9} - 3\sqrt{9}$

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Operations with Radicals

Answers

① $2\sqrt{6} - 2\sqrt{6}$

0

② $-3\sqrt{15} + 4\sqrt{15}$

$\sqrt{15}$

③ $2\sqrt{6} - 2\sqrt{24}$

$-6\sqrt{6}$

④ $\sqrt{24} + \sqrt{24} + \sqrt{54}$

$7\sqrt{6}$

⑤ $-\sqrt{7} - \sqrt{7}$

$-2\sqrt{7}$

⑥ $\sqrt{88} - \sqrt{88}$

0

⑦ $13\sqrt{5} + 14\sqrt{5}$

$27\sqrt{5}$

⑧ $\frac{-4\sqrt{28}}{\sqrt{4}}$

$-4\sqrt{7}$

⑨ $2\sqrt{8} - \sqrt{8}$

$2\sqrt{2}$

⑩ $-3\sqrt{12} + 3\sqrt{3} + 3\sqrt{20}$

$-3\sqrt{3} + 6\sqrt{5}$

⑪ $-3\sqrt{5} \cdot \sqrt{20}$

-30

⑫ $-3\sqrt{9} - 3\sqrt{9} - 3\sqrt{9}$

-27