

## Suma / resta de radicales

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a)  $-4\sqrt{5}+5\sqrt{5}=1\cdot\sqrt{5}=\sqrt{5}$

c) 
$$\frac{3\sqrt{5}-\sqrt{20}}{3\sqrt{5}-\sqrt{2^2\cdot 5}}$$

$$\frac{3\sqrt{5}-2\sqrt{5}}{\sqrt{5}}$$

b) 
$$\frac{17\sqrt{2}-9\sqrt{8}}{17\sqrt{2}-9\sqrt{2^3}}$$

$$\frac{17\sqrt{2}-9\cdot 2\sqrt{2}}{17\sqrt{2}-18\sqrt{2}}$$

$$\frac{-\sqrt{2}}{-\sqrt{2}}$$

d) 
$$\frac{4\sqrt{2}+3\sqrt{18}}{4\sqrt{2}+3\sqrt{2\cdot 3^2}}$$

$$\frac{4\sqrt{2}+3\cdot 3\sqrt{2}}{4\sqrt{2}+9\sqrt{2}}$$

$$13\sqrt{2}$$

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a) 
$$5\sqrt{12}+7\sqrt{27}-\sqrt{243}-\frac{1}{2}\sqrt{75}$$

$$5\sqrt{2^2\cdot 3}+7\sqrt{3^3}-\sqrt{3^5}-\frac{1}{2}\sqrt{3\cdot 5^2}$$

$$5\cdot 2\sqrt{3}+7\cdot 3\sqrt{3}-3^2\sqrt{3}-\frac{1}{2}\cdot 5\sqrt{3}$$

$$10\sqrt{3}+21\sqrt{3}-9\sqrt{3}-\frac{5}{2}\sqrt{3}$$

$$(22-\frac{5}{2})\sqrt{3}$$

$$\frac{39}{2}\sqrt{3}$$

b) 
$$4\sqrt{8}-7\sqrt{50}+\frac{8}{3}\sqrt{18}+4\sqrt{98}$$

$$4\sqrt{2^3}-7\sqrt{2\cdot 5^2}+\frac{8}{3}\sqrt{2\cdot 3^2}+4\sqrt{2\cdot 7^2}$$

$$4\cdot 2\sqrt{2}-7\cdot 5\sqrt{2}+\frac{8}{3}\cdot 3\sqrt{2}+4\cdot 7\sqrt{2}$$

$$8\sqrt{2}-35\sqrt{2}+8\sqrt{2}+28\sqrt{2}$$

$$9\sqrt{2}$$

c) 
$$12\sqrt[3]{16}-\frac{3}{5}\sqrt[3]{128}+7\sqrt[3]{54}$$

$$12\sqrt[3]{2^4}-\frac{3}{5}\sqrt[3]{2^7}+7\sqrt[3]{2\cdot 3^3}$$

$$12\cdot 2\sqrt[3]{2}-\frac{3}{5}\cdot 2^2\sqrt[3]{2}+7\cdot 3\sqrt[3]{2}$$

$$24\sqrt[3]{2}-\frac{12}{5}\sqrt[3]{2}+21\sqrt[3]{2}$$

$$(45-\frac{12}{5})\sqrt[3]{2}$$

$$\frac{213}{5}\sqrt[3]{2}$$