

$$\textcircled{b} \quad 3\sqrt{7} + 5\sqrt{7}$$
$$8\sqrt{7}$$

$$\textcircled{a} \quad 3\sqrt{5x} - 2\sqrt{5x}$$
$$1\sqrt{5x}$$

~~(a)~~ (b) $10x\sqrt{5}$

(c) ~~$4\sqrt[3]{7xy}$~~

Ex 3

$$\sqrt{12} + \sqrt{75} - \sqrt{3}$$

$$\sqrt{4 \cdot 3} + \sqrt{25 \cdot 3}$$

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

$$6\sqrt{3}$$

4
9
16
25
36
49
64

$$\textcircled{6} \quad \sqrt[3]{250} - \sqrt[3]{54} + \sqrt[3]{16}$$

8
27

$$\sqrt[3]{125 \cdot 2} - \sqrt[3]{27 \cdot 2} + \sqrt[3]{8 \cdot 2}$$

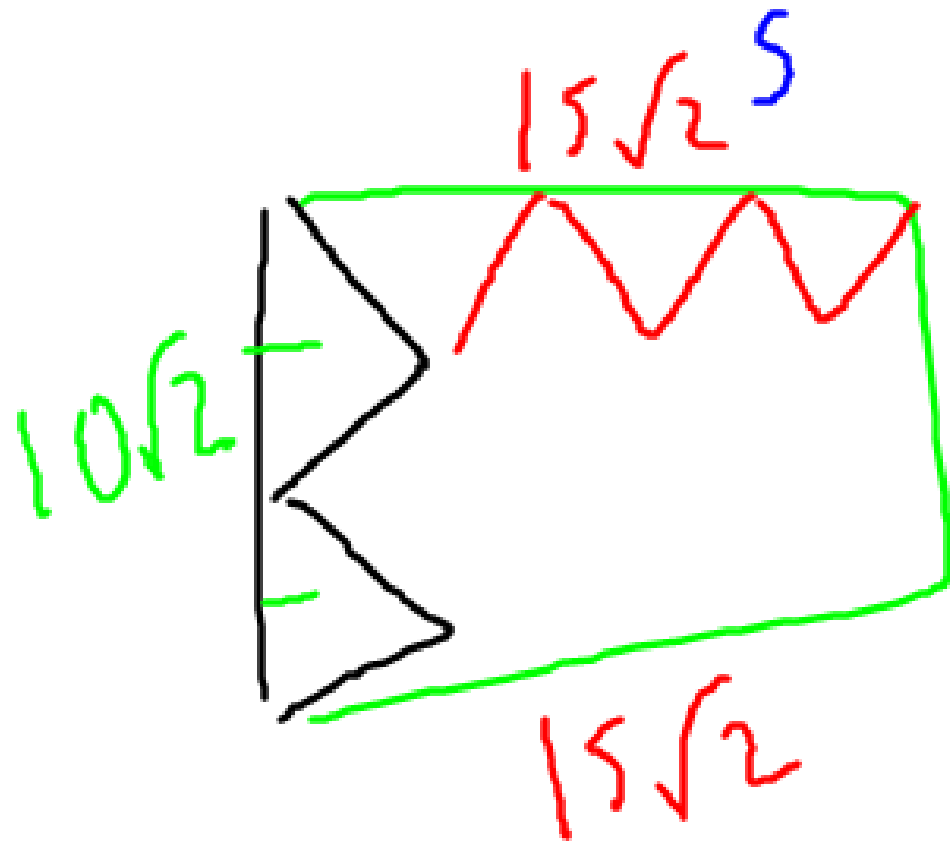
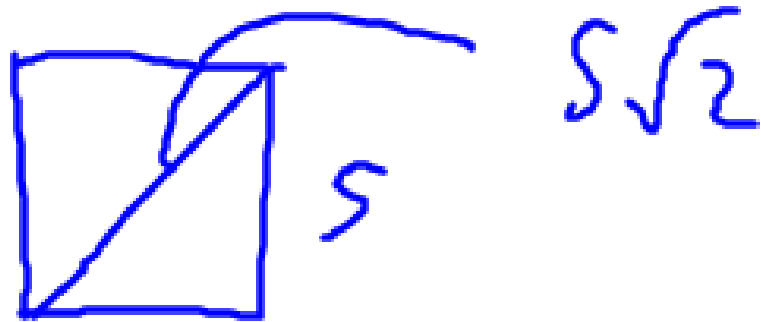
64

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

125
216

$$4\sqrt[3]{2}$$

Ex 2



$10\sqrt{2}$

$50\sqrt{2}$ in.

Ex. 4

$$(4 + 2\sqrt{2})(5 + 4\sqrt{2})$$

$$4 \cdot 5 + 4 \cdot 4\sqrt{2} + 5 \cdot 2\sqrt{2} + 2\sqrt{2} \cdot 4\sqrt{2}$$

$$\underbrace{20 + 16\sqrt{2} + 10\sqrt{2}} + 8\sqrt{4}$$

$$36 + 26\sqrt{2}$$

$$\textcircled{6} \quad (3 - \sqrt{7})(5 + \sqrt{7})$$

$$\textcircled{15} + 3\sqrt{7} - 5\sqrt{7} - \sqrt{49}$$

$$\textcircled{-7}$$

$$8 - 2\sqrt{7}$$

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Ex 5

$$(5 - \sqrt{7})(5 + \sqrt{7})$$

$$25 + 5\sqrt{7} - 5\sqrt{7} - \sqrt{49}$$

-7

$$18$$

$$\textcircled{a} \quad 3\sqrt{7} + 5\sqrt{7}$$
$$8\sqrt{7}$$

$$\textcircled{b} \quad 6x\sqrt{5} + 4x\sqrt{5}$$
$$10x\sqrt{5}$$

$$\textcircled{a} \quad 1\sqrt{5x}$$

Ex 3

$$\sqrt{12} + \sqrt{75} - \sqrt{3}$$

$$\sqrt{4 \cdot 3} + \sqrt{25 \cdot 3}$$

$$2\sqrt{3} + 5\sqrt{3} - 1\sqrt{3}$$

$$6\sqrt{3}$$

4

9

16

25

36

49

$$\begin{array}{r}
 \textcircled{b} \quad \sqrt[3]{250} - \sqrt[3]{54} + \sqrt[3]{16} \qquad \qquad \qquad 8 \\
 \sqrt[3]{25 \cdot 2} - \sqrt[3]{27 \cdot 2} + \sqrt[3]{8 \cdot 2} \qquad \qquad \qquad 27 \\
 5\sqrt[3]{2} - 3\sqrt[3]{2} + 2\sqrt[3]{2} \qquad \qquad \qquad 64 \\
 \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad 125 \\
 \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad 216
 \end{array}$$

$$4\sqrt[3]{2}$$

Ex 4

$$(4 + 2\sqrt{2})(5 + \sqrt{2})$$

$$20 + 4 \cdot 4\sqrt{2} + 5 \cdot 2\sqrt{2} + 2\sqrt{2} \cdot 4\sqrt{2}$$

$$20 + 16\sqrt{2} + 10\sqrt{2} + 8\sqrt{4}$$

$$+ 16$$

$$36 + 26\sqrt{2}$$

$$\textcircled{b} \quad (3 - \sqrt{7})(5 + \sqrt{7})$$

$$15 + 3\sqrt{7} - 5\sqrt{7} - \sqrt{49}$$

$$\textcircled{-7}$$

$$8 - 2\sqrt{7}$$

Ex 5

$$(5 - \sqrt{7})(5 + \sqrt{7})$$

$$\sqrt{49}$$

$$25 + 5\sqrt{7} - 5\sqrt{7} - 7$$

18

Ex 2



$$5\sqrt{2} \cdot 10$$

$$50\sqrt{2}$$

