

Adding and Subtracting Radicals

$$3x + 5x - 2x = 6x$$

We combined like terms

You treat irreducible radicals like variables.
(then CLT)

$$3x + 5y - 2x = 1x + 5y$$

still combining like terms

① $\sqrt{8} + 2\sqrt{2} - \sqrt{2}$

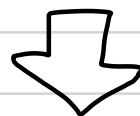
$$\sqrt{4 \cdot 2}$$

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

$$2x + 2x - 1x$$
$$3x$$

$$\boxed{3\sqrt{2}}$$

Reduce $\sqrt{\quad}$
if you can



② $\sqrt{5} + \sqrt{50} - 3\sqrt{5}$

$$\sqrt{5} + \sqrt{25 \cdot 2} - 3\sqrt{5}$$

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

$$1x + 5y - 3x$$

CLT

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

$$-2x + 5y$$

③ $4\sqrt{3} + 8\sqrt{3} - 2\sqrt{3}$

$$\boxed{10\sqrt{3}}$$

④ $8\sqrt{5} + 7\sqrt{2} + 9\sqrt{5}$

$$\boxed{17\sqrt{5} + 7\sqrt{2}}$$

Quiz 3/25/13

Add and/or subtract

① $\sqrt{12} + 3\sqrt{3} - \sqrt{3}$