



Add the following radicals, making them **like radicals** by previously extracting all possible factors (as shown in the example):


$$\text{a) } \sqrt{2} + \sqrt{8} + \sqrt{18} - \sqrt{32} = \sqrt{2} + \sqrt{2^3} + \sqrt{3^2 \cdot 2} - \sqrt{2^5} = \sqrt{2} + 2\sqrt{2} + 3\sqrt{2} - 2^2\sqrt{2} = \sqrt{2} + 2\sqrt{2} + 3\sqrt{2} - 4\sqrt{2} = 2\sqrt{2}$$



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$$\text{b) } \sqrt{5} + \sqrt{45} + \sqrt{180} - \sqrt{80} = \sqrt{\quad}$$

$$\text{c) } \sqrt{24} - 5\sqrt{6} + \sqrt{486} = \sqrt{\quad}$$

$$\text{d) } 27\sqrt{3} - 5\sqrt{27} - 9\sqrt{12} = \sqrt{\quad}$$

$$\text{e) } 2\sqrt{8} + 5\sqrt{72} - 7\sqrt{18} - \sqrt{50} = \sqrt{\quad}$$