

$$4) (\sqrt{8} - \sqrt{50}) \cdot \sqrt{2} = \sqrt{8} \cdot \sqrt{2} - \sqrt{50} \cdot \sqrt{2} = \sqrt{16} - \sqrt{100} = 4 - 10 = -6$$

$$5) (\sqrt{12} - \sqrt{75}) \cdot \sqrt{3} = \sqrt{12} \cdot \sqrt{3} - \sqrt{75} \cdot \sqrt{3} = \sqrt{36} - \sqrt{225} = 6 - 15 = -9$$

$$6) (4\sqrt{5} - 3\sqrt{20}) \cdot \sqrt{5} = 4\sqrt{5} \cdot \sqrt{5} - 3 \cdot \sqrt{20} \cdot \sqrt{5} = 4\sqrt{25} - 3\sqrt{100} = \\ = 4 \cdot 5 - 3 \cdot 10 = 20 - 30 = -10$$

$$2) (7\sqrt{3} + \sqrt{27}) \cdot \sqrt{3} = 7 \cdot 3 + \sqrt{81} = 21 + 9 = 30$$