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Date \_\_\_\_\_  
Pre-Calculus

## *Adding and Subtracting Radicals*

**Add or subtract the following radicals**

1.  $\sqrt{63} + \sqrt{7}$

2.  $\sqrt[3]{192} - \sqrt[3]{81}$

3.  $4\sqrt{18} + 2\sqrt{72}$

4.  $4\sqrt[3]{320} - 2\sqrt[3]{135}$

5.  $\sqrt{200k} - 2\sqrt{18k}$

6.  $5\sqrt[3]{16x} + 2\sqrt[3]{250x}$

7.  $2\sqrt{12y} + 3\sqrt{27y}$

8.  $-2\sqrt[3]{162x} + 2\sqrt[3]{384x}$

$$9. \sqrt{50x^2} + \sqrt{98x^2}$$

$$10. -2\sqrt[3]{256x^2} - \sqrt[3]{32x^2}$$

$$11. 5\sqrt{4x^5} - 2\sqrt{9x^5}$$

$$12. 5\sqrt[3]{56x^4} - 2\sqrt[3]{189x^4}$$

$$13. 2\sqrt{50} + 3\sqrt{75} - \sqrt{8}$$

$$14. 3\sqrt[3]{40} + 2\sqrt[3]{625} - 2\sqrt[3]{32}$$

$$15. 5\sqrt{294} - 3\sqrt{216} - 4\sqrt{180}$$

$$15. 7\sqrt[3]{500} + \sqrt[3]{250} - 6\sqrt[3]{32}$$