



Review: Radicals & Rational Exponents

Directions: Work **together** to simplify each problem. Do not divide up the work! Each person should be participating. At the end of class, one person's paper will be chosen at random and graded for the group.

Simplifying

$$1. \sqrt{300m^4n^{25}} = \sqrt{100m^4n^{24}} \cdot \sqrt{3n} \\ = 10m^2n^{12}\sqrt{3n}$$

$$2. \sqrt[3]{-72a^9b^3} = \sqrt[3]{-8 \cdot 9a^9b^3} = \sqrt[3]{-8} \cdot \sqrt[3]{9a^9b^3} \\ = -2a^3b\sqrt[3]{9}$$

$$3. \sqrt[3]{81m^{12}n^{20}} = \sqrt[3]{27m^{12}n^{18}} \cdot \sqrt[3]{3m^2n^2} \\ = 3m^4n^6\sqrt[3]{3m^2n^2}$$

Operations

$$4. 4\sqrt{98} + \sqrt{150} - 2\sqrt{32} \\ 4 \cdot 7\sqrt{2} + 5\sqrt{6} - 2 \cdot 4\sqrt{2} \\ 28\sqrt{2} + 5\sqrt{6} - 8\sqrt{2} \\ 20\sqrt{2} + 5\sqrt{6}$$

$$5. 10\sqrt[3]{5} + 7\sqrt[3]{40} - \sqrt[3]{320} \\ 10\sqrt[3]{5} + 7 \cdot 2\sqrt[3]{5} - 4\sqrt[3]{5} \\ 10\sqrt[3]{5} + 14\sqrt[3]{5} - 4\sqrt[3]{5} \\ 20\sqrt[3]{5}$$

$$6. 3\sqrt[3]{8} - 7\sqrt[3]{32} = 2\sqrt[3]{128} = 2 \cdot 4 = 8$$

$$7. \sqrt[3]{-6x^3} \cdot \sqrt[3]{18x^4} = \sqrt[3]{-108x^7} = \sqrt[3]{-27 \cdot 4x^6} \cdot \sqrt[3]{x} = -3x^2\sqrt[3]{4x}$$

$$8. \sqrt{3}(2 - \sqrt{24}) = 2\sqrt{3} - \sqrt{72} \\ 2\sqrt{3} - 2\sqrt{3} = 0$$

$$9. (4 + 3\sqrt{5}) \cdot (-2 + \sqrt{5}) \\ -8 + 4\sqrt{5} - 6\sqrt{5} + 3 \cdot 5 \\ -8 + 4\sqrt{5} - 6\sqrt{5} + 15 \\ 7 - 2\sqrt{5}$$

$$10. (1 + 7\sqrt{3})(1 - 7\sqrt{3}) \\ 1 - 7\sqrt{3} + 7\sqrt{3} - 49 \cdot 3 \\ 1 - 147 \\ -146$$

$$11. (3 + \sqrt{6})^2 \\ (3 + \sqrt{6}) \cdot (3 + \sqrt{6}) \\ 9 + 3\sqrt{6} + 3\sqrt{6} + 6 \\ 9 + 6\sqrt{6} + 6 \\ 15 + 6\sqrt{6}$$

$$12. \frac{-45\sqrt{156}}{9\sqrt{3}} = -5\sqrt{52} = -5 \cdot 2\sqrt{13} = -10\sqrt{13}$$

$$13. \frac{\sqrt[3]{r^{20}s^9}}{\sqrt[3]{r^2s}} = \sqrt[3]{r^{18}s^8} = \sqrt[3]{r^6s^6} \cdot \sqrt[3]{r^6s^2} = r^2s^2\sqrt[3]{r^6s^2}$$

Rational Exponents Guide

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