

Quiz B: Radicals & Rational Exponents Simplify each expression.	
1. Rewrite as a radical expression. $(36x^3)^{\frac{1}{2}}$ $\sqrt[2]{(36x^3)^2}$ or $(\sqrt[2]{36x^3})^2$	2. Simplify. $6x^2 \cdot x^3 \cdot \sqrt{4x}$ $2x^2 \sqrt{63x^2 y^2}$ $2x \sqrt{9} \cdot \sqrt{7} \cdot \sqrt{3^2} \cdot \sqrt{x} \cdot \sqrt{y^2}$ $2x \cdot 3 \cdot x \cdot y \cdot \sqrt{7x}$
3. Rewrite as a rational exponent. $\sqrt[3]{20a^3}$ $(20a^3)^{\frac{1}{3}}$	4. Simplify. $-5x^2 y^3 \sqrt{2x}$ $-\sqrt{50x^4 y^6 z^2}$ $-1 \sqrt{2^2 \cdot 5^2 \cdot x^4 \cdot y^6 \cdot z^2} = 1 \sqrt{2^2} \cdot \sqrt{5^2} \cdot \sqrt{x^4} \cdot \sqrt{y^6} \cdot \sqrt{z^2}$ $-1 \cdot 2 \cdot 5 \cdot x^2 \cdot y^3 \cdot \sqrt{z^2}$
5. Simplify. $\sqrt{2700x^4}$ $\sqrt{900 \cdot 3} \cdot \sqrt{x^4}$ $30x^2 \sqrt{3}$	6. Simplify. $45x^3 \sqrt{3x}$ $(\sqrt{75x^4})(\sqrt{63x^2})$ $(\sqrt{3^2 \cdot 5^2 \cdot x^4})(\sqrt{3^2 \cdot 7 \cdot x^2})$ $15 \cdot x \cdot 3 \cdot x \cdot \sqrt{7x}$
7. Simplify then rewrite as a radical expression. $(25x^6)^{\frac{1}{2}}(20x^3)^{\frac{1}{2}}$ $\sqrt{25x^6} \cdot \sqrt{20x^3}$ $5x^3 \cdot \sqrt{4 \cdot 5 \cdot x^3}$ $2x^3 \sqrt{5x^3}$	8. Simplify. $\sqrt{169}$ 13
9. The base of a triangular concrete patio is $(32x^2 y^3)^{\frac{1}{2}}$. The height is $(8x^3 y^2)^{\frac{1}{2}}$. Determine the area of the patio. $A = \frac{1}{2}bh$ $A = \frac{1}{2} (32x^2 y^3)^{\frac{1}{2}} (8x^3 y^2)^{\frac{1}{2}}$ $A = \frac{1}{2} (4^2 \cdot 2^2 \cdot x^2 \cdot y^3)^{\frac{1}{2}} (2^3 \cdot x^3 \cdot y^2)^{\frac{1}{2}}$ $A = \frac{1}{2} (4 \cdot 2 \cdot x \cdot y^{\frac{3}{2}}) (2 \cdot x^{\frac{3}{2}} \cdot y)$ $4x^2 y^2 \sqrt{6}$	10. Use the formula, $\text{Area} = \pi r^2$, to find the area of a circle with a radius of $(54x^3 y^4)^{\frac{1}{2}}$. Leave in the answer. $r = (54x^3 y^4)^{\frac{1}{2}}$ $A = \pi r^2$ $A = \pi (54x^3 y^4)$ $54\pi x^3 y^4$

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CH Cherryholmes



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