

Algebra II Practice N.RN.A.2: Radicals and Rational Exponents 1

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NAME: _____

Simplify:

1. $\sqrt{27x^{11}y^6}$

6. $\sqrt[4]{x^{11}y^6}$

2. $\sqrt{8x^3y^8}$

7. $\sqrt[5]{x^{18}y^{22}}$

3. $\sqrt{72x^9y^4}$

8. $\sqrt[3]{x^5y^{11}}$

4. $\sqrt{48x^5y^{10}}$

9. $\sqrt[3]{x^{11}y^5}$

5. $\sqrt{75x^7y^2}$

10. $\sqrt[5]{x^7y^{24}}$

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[1] $3x^5y^3\sqrt{3x}$

[2] $2xy^4\sqrt{2x}$

[3] $6x^4y^2\sqrt{2x}$

[4] $4x^2y^5\sqrt{3x}$

[5] $5x^3y\sqrt{3x}$

[6] $x^2y\sqrt[4]{x^3y^2}$

[7] $x^3y^4\sqrt[5]{x^3y^2}$

[8] $xy^3\sqrt[3]{x^2y^2}$

[9] $x^3y\sqrt[3]{x^2y^2}$

[10] $xy^4\sqrt[5]{x^2y^4}$
