

Name \_\_\_\_\_  
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Date \_\_\_\_\_  
Algebra II



## *Given Radicals*

Express the following without using radicals:

1.  $\sqrt{x^{-2}y^5}$

2.  $\sqrt[3]{27x^6y^{-8}}$

3.  $\sqrt{25x^3y^4}$

4.  $\sqrt[3]{64x^{-5}y^{-8}}$

5. The expression  $\sqrt[4]{16x^2y^7}$  is equivalent to

- 1)  $2x^{\frac{1}{2}}y^{\frac{7}{4}}$
- 2)  $2x^8y^{28}$
- 3)  $4x^{\frac{1}{2}}y^{\frac{7}{4}}$
- 4)  $4x^8y^{28}$

6. The expression  $\sqrt[4]{81x^2y^5}$  is equivalent to

- 1)  $3x^{\frac{1}{2}}y^{\frac{5}{4}}$
- 2)  $3x^{\frac{1}{2}}y^{\frac{4}{5}}$
- 3)  $9xy^{\frac{5}{2}}$
- 4)  $9xy^{\frac{2}{5}}$