

Acad Algebra 2 Worksheet  
Rational Exponents

Write each of the following expressions as a series of terms of the form  $ax^n$ .

1.)  $3x\sqrt{x}$

2.)  $\sqrt[3]{x} \cdot 6\sqrt[4]{x}$

3.)  $\frac{7}{x^6}$

4.)  $\frac{10\sqrt[3]{x}}{4x}$

5.)  $\sqrt[3]{x}(4x^2 + 7x)$

6.)  $\frac{12x^2 + 3x}{3\sqrt{x}}$

7.)  $\frac{2x^3 - 5x + 7}{4x^2}$

8.)  $(5 + \sqrt{x})(7 - \sqrt[3]{x})$