

Precalc 11.1

* Algebra 2

Use the properties of exponents*

Evaluate and simplify expressions with rational exponents*

Solve equations containing rational exponents

base

exponent

rational

scientific notation

$\sqrt{\quad}$ () ^{$\frac{1}{2}$}
radical form vs rational exponent form

triangle puzzle

8 Simplify $\sqrt{r^7 s^{25} t^3}$.

$$r^3 s^{12} t \sqrt{rst}$$

9 Solve $734 = x^{\frac{3}{4}} + 5$.

$$(729)^{\frac{4}{3}} = (x^{\frac{3}{4}})^{\frac{4}{3}}$$

$$\boxed{\left(\sqrt[3]{729}\right)^4} = x$$

$$6561 = x$$

$$x =$$

WB 11.1