

Evaluating Rational Exponents

Name _____

Date _____ Period _____

Evaluate the following:

$$16^{\frac{1}{4}}$$

$$27^{\frac{1}{3}}$$

Evaluate the following:

$$32^{\frac{3}{5}}$$

$$64^{\frac{-2}{3}}$$

Solve the following equations

$$5x^3 = -40$$

$$x^4 - 25 = 600$$

$$(x - 3)^3 - 18 = 46$$