

Solving Equations with Rational Exponents

Name _____

Date _____ Period _____

Solve the following equations

$$(x - 3)^{\frac{1}{2}} = 3$$

$$(2x + 4)^{\frac{1}{3}} = 2$$

$$(4x + 1)^{\frac{1}{4}} = 3$$

Solve the following equations

$$2(x - 5)^{\frac{1}{2}} = 8$$

$$(8x + 1)^{\frac{1}{2}} = x + 2$$

$$(3x - 11)^{\frac{1}{2}} = x - 3$$

Solve the following equations

$$2(x + 2)^{\frac{3}{2}} = 16$$

$$\frac{1}{2}(4x - 8)^{\frac{2}{3}} = 8$$