

Name: _____ Hour: _____ Date: _____

Solving Radical Equations Practice

Solve each equation. **CHECK FOR EXTRANEIOUS SOLUTIONS...** it's the law.

$$\sqrt{x} = 10$$

$$6 = \sqrt{v-2}$$

$$\sqrt{v-4} = 3$$

$$\sqrt{n+9} = 1$$

$$10\sqrt{9x} = 60$$

$$-8 + \sqrt{5a-5} = -3$$

$$\sqrt{3n} = \sqrt{4n-1}$$

$$\sqrt{3n+12} = \sqrt{n+8}$$

$$\sqrt{2k+40} = \sqrt{-16-2k}$$

$$\sqrt{11-x} = \sqrt{x-7}$$

Simplify each expression using the properties of exponents.

$$\frac{(2pm^{-1}q^0)^{-4} \cdot 2m^{-1}p^3}{2pq^2}$$

$$\frac{(2hj^2k^{-2} \cdot h^4j^{-1}k^4)^0}{2h^{-3}j^{-4}k^{-2}}$$

Convert between rational exponent and radical forms.

$$6^{\frac{1}{3}}$$

$$11^{\frac{5}{3}}$$

$$\sqrt[7]{x^2}$$

$$\sqrt{t}$$

Simplify using the properties of rational exponents.

$$(a^8)^{\frac{3}{2}}$$

$$(64m^4)^{\frac{3}{2}}$$