

13.4 Solving Equations Containing Radical Expressions

Name: _____

Solving Radical Equations

Examples:

$$\sqrt{5z-2} = 3$$

$$\sqrt{x-2} - 7 = -4$$

$$\sqrt[4]{x+3} = 3$$

$$(x+5)^{1/3} = 4$$

Equations with two radical terms.

$$\sqrt{4x-3} = 2 + \sqrt{2x-5}$$

$$4 + \sqrt{10 - x} = 6 + \sqrt{4 - x}$$

If $g(x) = \sqrt{x} + \sqrt{x-5}$, find x such that $g(x) = 5$.