

2.1 Power and Radical Functions (day 1)

OBJECTIVES:

- Solve radical equations.
- Solve radical inequalities.

Solve:

$$\boxed{\text{ex. 1}} \quad 3x = 3 + \sqrt{18x - 18}$$

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$$\boxed{\text{ex. 2}} \quad \sqrt[3]{4x + 8} + 3 = 7$$

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$$\boxed{\text{ex. 3}} \quad \sqrt{x + 7} = 3 + \sqrt{2 - x}$$

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$$\boxed{\text{ex. 4}} \quad \sqrt{12-x} = x$$

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$$\boxed{\text{ex. 5}} \quad \sqrt{3x+7} + \sqrt{x+2} = 1$$

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$$\boxed{\text{ex. 6}} \quad \sqrt{6 + 3x} \leq 9$$

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$$\boxed{\text{ex. 7}} \quad (2x - 68)^{\frac{2}{3}} \geq 64$$

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Assignment:

Pg. 93 (44-55 all, 63-67 odd)