



# Radical Equations

Version 1

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_

Direction: Solve each radical equation. Check your answers to exclude extraneous solutions. Show all your work in the space provided.

1)  $\sqrt{-2x+1} = 3$

2)  $\sqrt{4x+12} = x+3$

3)  $\sqrt{3x+7} + 1 = x$

4)  $\sqrt{x-1} + \sqrt{x+1} = 2$



# Radical Equations

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Direction: Solve each radical equation. Check your answers to exclude extraneous solutions. Show all your work in the space provided.

1)  $\sqrt{-2x+1} = 3$

$x = -4$

2)  $\sqrt{4x+12} = x+3$

$x_1 = -3, x_2 = 1$

3)  $\sqrt{3x+7} + 1 = x$

$x = 6$

4)  $\sqrt{x-1} + \sqrt{x+1} = 2$

$x = \frac{5}{4}$