



# Radical Equations

Version 2

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

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

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

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

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

2)  $\sqrt{2x-2} + 5 = x$

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

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



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

$$x = \frac{25}{9}$$

2)  $\sqrt{2x-2} + 5 = x$

$$x = 9$$

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

$$x = \frac{\sqrt{6}}{2}$$

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

$$x_1 = \frac{\sqrt{3}}{3}, x_2 = -\frac{\sqrt{3}}{3}$$