

Radical Equations HW

Solve each equation. Don't forget to check for extraneous solutions. Show all work. Find your solutions in the answer bank below.

1.  $\sqrt{3x-5} = 4$

2.  $\sqrt[3]{x-2} = 2$

3.  $\sqrt{x+14} - \sqrt{3x-10} = 0$

4.  $\sqrt{x+5} - 1 = \sqrt{x}$

5.  $\sqrt{x^2-9} = 4$

6.  $x-2 = \sqrt{x-2} + 12$

7.  $\sqrt{-3x-14} - x = 4$

8.  $\sqrt{x+6} - x = 4$

9.  $\sqrt{x} + \sqrt{x-5} = 5$

x = 4	x = 18	x = 7
x = -2	x = 10	x = 9
No Solutions	x = 5, -5	x = 12