

Solving Radical Equations WS

Solve each equation. Remember to check for extraneous solutions. Check your answers. Show all required work.

1) $46 = 5\sqrt{p+5} - 4$

2) $10 + \sqrt{x-7} = 7$

3) $-24 = -4\sqrt{-4-5p}$

4) $7 + \sqrt{8-r} = 7$

5) $1 + \sqrt{6n-5} = 8$

6) $24 = 3\sqrt{8b+12}$

7) $\sqrt{-24+10m} = m$

8) $\sqrt{-72+17b} = b$

9) $v = \sqrt{3v}$

10) $a = \sqrt{6-a}$

11) $\sqrt{-6+5v} = v$

12) $x = \sqrt{-54+15x}$

13) $5 = \sqrt[3]{x-3}$

14) $9 = 3\sqrt[3]{x+7} - 18$

15) $2\sqrt[3]{x+12} = 4$

16) $-3\sqrt[4]{x+8} = 9$

17) $\sqrt{6r+15} - r = 4$

18) $n = 2 + \sqrt{24-3n}$

19) $-3 = \sqrt{7-3x} - x$

20) $\sqrt{a-2} = a-2$