

Solve each equation. Remember to check for extraneous solutions.

1) $-10 = \sqrt{x-13} - 12$

2) $\sqrt{n-9} = \sqrt{51-2n}$

3) $3\sqrt{22-r} = 9$

4) $\sqrt{31-r} = \sqrt{r-9}$

5) $91 = 7\sqrt{21b+1}$

6) $\sqrt{12n+7} = \sqrt{n+7}$

7) $x = \sqrt{56-x}$

8) $\sqrt{-63+16k} = k$

9) $n = \sqrt{42-n}$

10) $\sqrt{-48+14m} = m$

11) $-10 = -x + \sqrt{2x-20}$

12) $-12 = -a + \sqrt{32-2a}$

13) $\sqrt{6p+15} - 4 = p$

14) $\sqrt{p-8} = p - 10$