

## Extra Practice - Solving Radical Equations

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Solve each equation. Remember to check for extraneous solutions.

1)  $\sqrt{2a+20} = \sqrt{-4-a}$

2)  $\sqrt{5a-1} = \sqrt{3a+3}$

3)  $\sqrt{13-2x} = \sqrt{7-x}$

4)  $\sqrt{3k+1} = \sqrt{2k+3}$

5)  $13 = 5 + \sqrt{x+12}$

6)  $10 = \sqrt{m+7} + 7$

7)  $\sqrt{2x+126} = 12$

8)  $8 = \sqrt{n+10} + 4$

9)  $\sqrt{3v-5} = \sqrt{v+7}$

10)  $\sqrt{11n+1} = 12$

11)  $-14\sqrt{b-4} = -154$

12)  $-3\sqrt{3v} = -27$

13)  $7 = 1 + \sqrt{n+10}$

14)  $\sqrt{6k+9} = \sqrt{9-5k}$

15)  $\sqrt{3x+35} = \sqrt{-10-2x}$

16)  $\sqrt{\frac{a}{12}} = \sqrt{50-2a}$

17)  $\sqrt{\frac{k}{12}} = \sqrt{130-k}$

18)  $\sqrt{m+11} + 1 = 2$

19)  $\sqrt{2r} = \sqrt{18-r}$

20)  $4\sqrt{10x-10} = 40$