Advanced Algebra w/ Trig 6.6 Solving Radical Equations

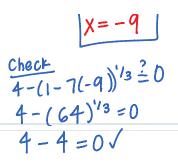


Name:

Solve the following radical equations for x. Be sure to check for extraneous solutions!

(1) 
$$(\sqrt{2x})_{=43}^{4}$$
  
2)  $(\sqrt{3x} - 6)^{2} = 3^{2}$   
3)  $(\sqrt{3x} - 6)^{2} = 3^{3}$   
3)  $(\sqrt{3x} - 7)^{2} = 4^{2}$   
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5)  $(\sqrt{3x}$ 

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7. 
$$\sqrt{3x-2} = \sqrt{x-4}$$

**8**.  $\sqrt{3x+2} = 5\sqrt{x-7}$ 

**9**. 
$$\sqrt{x-1} = 4\sqrt{x+1}$$

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