## 12.3- Solving Radical Equations

Solve each radical equation.

1) 
$$\sqrt{x}-16=0$$

2) 
$$\sqrt{4x+1}+5=10$$

3) 
$$x = \sqrt{-4x - 4}$$



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RADICAL REVIEW[from chapter 9]!!! Simplify each radical expression.

4) 
$$\sqrt{48}$$
2 24
2 17
10
2 5
2 3

5) 
$$5\sqrt{7} + 9\sqrt{7}$$

6) 
$$\sqrt{24} - \sqrt{96} + \sqrt{6}$$

7) 
$$\sqrt{5} \cdot \sqrt{8}$$

8) A marketing department determines that the price of a *People* magazine subscription for one year and the demand to subscribe are related to the equation:  $P = 52 - \sqrt{0.0002x + 1}$ , where P is the price per subscription and x is the number of subscriptions sold. If the yearly subscription price is set to \$30, how many subscriptions would be sold?