## 5.5 Solving Radical Equations

- 1. Need to get the root by itself, or one root on each side.
- 2. undo the root by taking a power 3. Solve the equation of chack your answer

$$Ex^{2} = 3$$

$$+2 + 2$$

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$$(3\sqrt{2}x+1)^{3} = (5)^{3}$$

$$2x+1 = 125$$

$$2x - 124$$

$$2x - 62$$

$$x = 62$$

Chick:  

$$3\sqrt{2(6)}+1-2=3$$
  
 $3\sqrt{125}-2=3$   
 $5-2=3$   
 $3=3$ 

$$E \times \frac{1}{3} \times \frac{16=0}{-6-6}$$

$$\frac{-6-6}{(3)^{2}+6=0}$$

$$\frac{3}{3} \times \frac{2}{3} \times \frac{3}{3} \times \frac$$

$$\frac{\sqrt{5x+3} - \sqrt{x+11}}{+ \sqrt{x+11}} + \sqrt{x+11} + \sqrt{x+11} + \sqrt{x+11} + \sqrt{x+11} = 0$$

$$\frac{\sqrt{5x+3}}{\sqrt{5x+3}} = \frac{(x+1)^2}{(x+1)^2} + \sqrt{x+11} = 0$$

$$\frac{5(2)+3}{\sqrt{13}} - \sqrt{13} = 0$$

$$\frac{\sqrt{x} + 2}{-2} = \frac{x}{2}$$

$$(\sqrt{x}) = (x-2)^{2}$$

$$x = (x-2)^$$

Hw: P. 346 6-42 evens