11 - 3 Radical Equations

Ex:
$$\sqrt{x+1} + 7 = 10$$

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

$$X = 8$$

Ex:
$$\sqrt{x-3} + 8 = 15$$

 $-8 - 8$
 $(\sqrt{x-3})^2 = 7^2$
 $(\sqrt{x-3})^2 = 49$
 $+3 + 3 = 49$

Ex:
$$\sqrt{x+2} = (x-4)^2$$

 $\sqrt{x+2} = x^2 - 8x + 10$
 $-x-2$
 $-x-2$
 $-x-2$
 $-x-2$
 $-x-3$
 $-x-3$

Ex:
$$4+\sqrt{x-2} = \frac{3}{4}$$

 $(\sqrt{x-2})^2 = (x-4)(x-4)$
 $(x-2)^2 = (x-4)(x-4)$
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 $(x-4)^2 = (x-4)(x-3)$

$$\chi = 6$$
 $\chi \times 3$

Homework:

p. 601 #18 - 26 even, 36 - 42 even