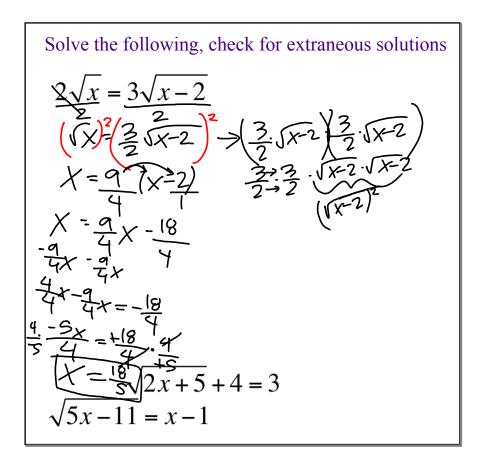


## April 01, 2015

$$\begin{array}{c} (x+6)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} = 0 \\ (x+6)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} = 0 \\ (x+6)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} \\ + \sqrt{2x-4} + \sqrt{2x-4} \\ (x+6)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} \\ (x+6)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} \\ (x+6)^{\frac{1}{2}} - (2x-4)^{\frac{1}{2}} \\ + 2x-4 \\ - 4 \\ - 6 \\ - 6 \\ - 6 \\ - 6 \\ - 6 \\ - 6 \\ - 7 \\$$

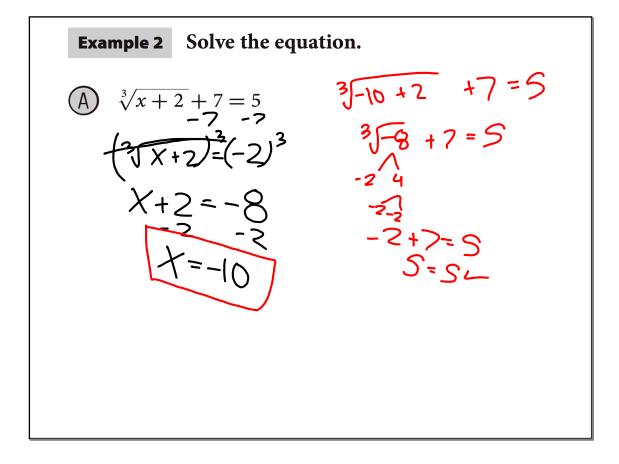


 $(2\sqrt{x})^{2}(3\sqrt{x-2})^{2}$  $2^{2}\sqrt{x}^{2}=3^{2}\sqrt{x-2}^{2}$  $(xy)^{2} = \chi^{2} \cdot y^{2}$ 4x = 9(x-2)4x = 9(x-2)4x = 9(x-18)-9(x-18) $f = \frac{18}{7} = \frac{18}{5}$ 

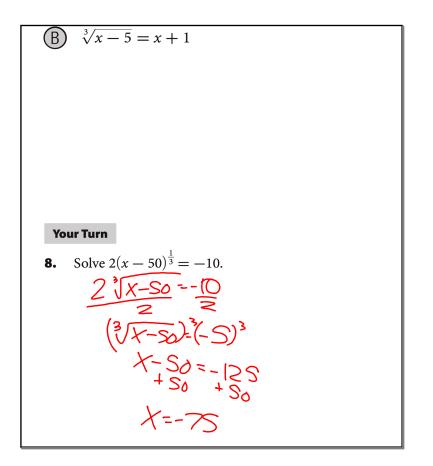
 $\sqrt{2x+5}+4=3 \qquad \sqrt{-4+5}+4=3 \\ \sqrt{2x+5}=(-1)^2 - \sqrt{4+5} + (-1)^2 - \sqrt$ 

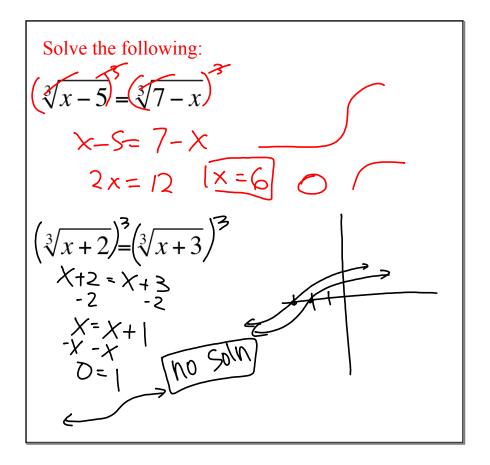
Solve the following, check for extraneous solutions

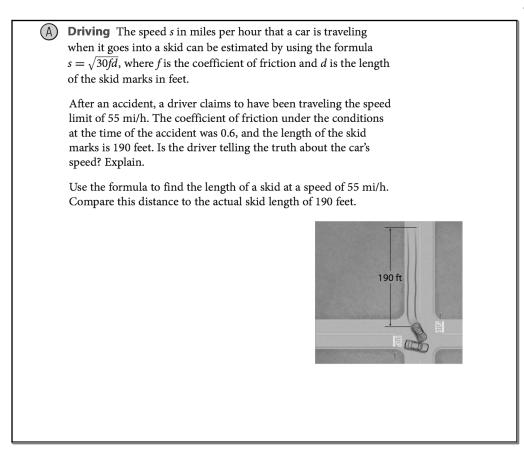
$$\sqrt{2x+5} = \sqrt{x} + 2$$



April 01, 2015







## Your Turn

**9. Biology** The trunk length (in inches) of a male elephant can be modeled by  $l = 23\sqrt[3]{t} + 17$ , where t is the age of the elephant in years. If a male elephant has a trunk length of 100 inches, about what is his age?

50=23

