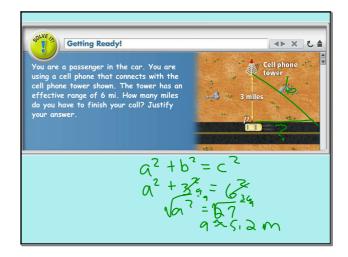
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Section 6-5 Solving Square Root and Other Radical Equations



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A radical equation is an equation that has a variable in a radicand or a variable with a rational exponent.

-you will following the same steps to solving an equation: isolate the variable by using inverse operations

-undo the root by raising both side to the index

Solve: $\sqrt{4x+1} - 5 = 0$ $(\sqrt{-(x+1)^2-6})^2$ $(\sqrt{x+1} - 26)^2$ $(\sqrt{x+1} - 26)^2$ $(\sqrt{x+1} - 26)^2$

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Solve:
$$(6x + 9)^{\frac{1}{3}} - 5 = -2$$
 $+6 + 6$
 $((6x + 9)^{\frac{1}{3}} - 6)^{\frac{1}{3}}$
 $((6x + 9)^{\frac{1}{3}} - 6)^{\frac{1}{3}}$

Solve:
$$\frac{2(x + 3)^3}{2} = \frac{8}{2}$$

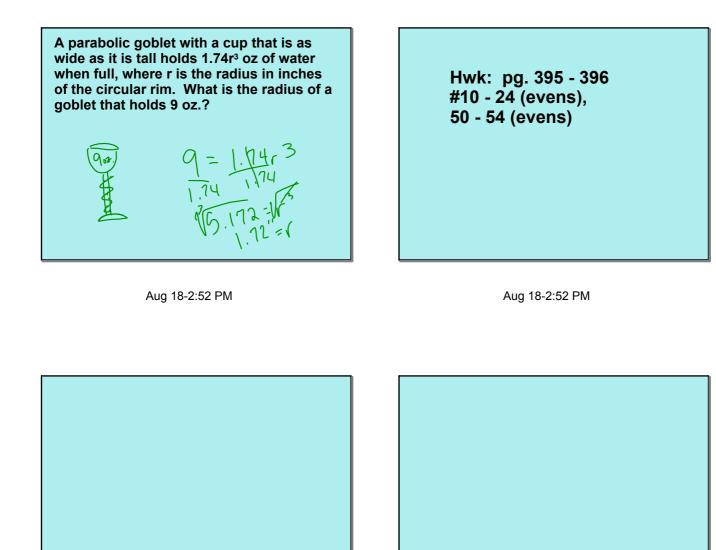
$$((x+3)^{\frac{3}{2}}) = (1)^{\frac{3}{2}}$$

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

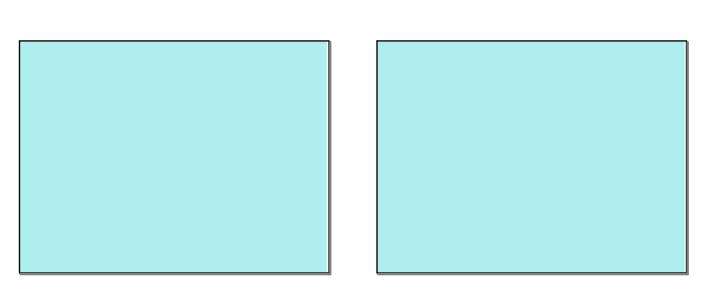
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