## Algebra 1

Our Goal: To learn to solve square root equations
Warm Up: Have your homework out for checking, please
Today's Homework:
10.3 Textbook Exercises, p.564: 4-34 (evens)

Previous Homework
None

## 3 <br> $V=\frac{4}{3} \pi r^{3}$


G) Core Concept

Squaring Each Side of an Equation
Words If two expressions are equal, then their squares are also equal.
Algebra If $a=b$, then $a^{2}=b^{2}$.

Solve each equation.

b. $3-\sqrt{x}=0$

Solve the equation. Check your solution.

1. $\sqrt{x}=6$
2. $\sqrt{x}-7=3$
3. $\sqrt{y}+15=22$
4. $1-\sqrt{c}=-2$



Solve $13+\sqrt{5 n}=3$.



$$
\begin{gathered}
\sqrt{-1+2}+(-1)=0 \\
\sqrt{x+2}+x=0 \\
\sqrt{x+2}=-x \\
(\sqrt{x+2})^{2}=(-x)^{2} \\
x+2=x^{2} \\
0=x^{2}-x-2 \\
(x-2)(x+1) \\
x=2,-1
\end{gathered}
$$

