Solving Equations Containing Radicals
Use the Get Rid of It Strategy

The strategy we'll use to solve equations containing radicals will be based on

$$
\sqrt[n]{a}=b, \text { then } a=b^{n}
$$

Remember, when an index is not written. it is understood to be 2.

## Algorithm for Solving Equations Containing Radicals

1. Isolate the radical
2. Raise both sides to a power equal to the index
3. Solve the resulting equation
4. Always, always check your answer!

Solve the following equations

1. $\sqrt{x}=2$
2. $\sqrt{x}=3$
3. $\sqrt{x+5}=5$
4. $\sqrt{x-2}=4$
5. $\sqrt{x-1}=2$
6. $\sqrt[3]{x-2}=\mathbf{3}$
7. $\sqrt[4]{x-1}=2$
8. $\sqrt{x}-3=0$
9. $\sqrt{x}-\mathbf{2}=0$
10. $\sqrt{x}-5=0$
