## Simplify Radical Equations - Practice

Simplify the following problems. Be sure to check your answers.

1. $x^{3}=8$
2. $x=\sqrt{-6 x+7}$
3. $x=\sqrt{8 x-7}$
4. $x^{2}-36=0$
5. $(x+5)^{2}=7$
6. $x+2=\sqrt{-2 x-1}$
7. $x+2=\sqrt{21}$
8. $(x+3)^{2}=116$
9. $(x-3)^{2}=-64$
10. $x=\sqrt{6 x+29}$

## Solutions:

1. $x=2$ 2. $x=1$
2. $x=1,7$
3. $x=-6,6$
4. $x=5-\sqrt{7}, 5+\sqrt{7}$
5. $x=-1$
6. $x=-2-\sqrt{21},-2+\sqrt{21}$
7. $x=-3-2 \sqrt{29},-3+2 \sqrt{299} . x=3-8 i, 3+8 i$ 10. $x=3-\sqrt{28}, 3+\sqrt{28}$
