## Solving Radical Equations (additional practice)

Solve each of the following equations. Show all necessary work.

1. $\sqrt{x+1}+5=x$ 5. $2 x=\sqrt{1}-3 x$
2. $x-\sqrt{x-1}=7$
3. $x$
$=\frac{\sqrt{2-3 x}}{3}$
4. $\sqrt{x}-2=x-227 \cdot \frac{1}{x}=\frac{3}{\sqrt{4 x+1}}$
5. $\sqrt{x+2}=-x-2$
6. $3+\sqrt{x}=1+x$
7. $\sqrt{x^{2}-8 x}=3$
8. $\sqrt{2 x+5}+x=5$

Answers:

1. $x=8$
2. $x=\frac{1}{3}$
3. $x=\frac{2+\sqrt{13}}{9}$
4. $x=10$
5. $x=-2$
6. $x=25$
7. $x=-1,9$
8. $x=4$
9. $x=2$
10. $x=\frac{1}{4}$
