$\qquad$

## Radical Equations

 In-Class Assignment> In order to earn full marks for each question, you have to clearly communicate your final answer and show verification and check whenever needed.
> Use your notes and work with your peers.

Task: Showing all work, solve given equations algebraically. Justify your answer (solve, verify, check). And clearly state whether your solution is valid or extraneous.

## L1:

1. $5=\sqrt{x}+1$
2. $-10=-7+\sqrt{x+5}$

L2:
3. $-2 \sqrt{5 x}=-18$
4. $\sqrt{x+1}=\sqrt{2 x-7}$

L3:
5. $\frac{2}{3} \sqrt{x}=14$
6. $\sqrt{-x+3}+13=-2$

L4:
7. $3 \sqrt{-x}+1=3 x+7$
8. $\sqrt{x+1}=5-\sqrt{x}$

