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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:

$$3. \qquad -2\sqrt{5x} = -18$$

$$4. \qquad \sqrt{x+1} = \sqrt{2x-7}$$

L3:

$$5. \qquad \frac{2}{3}\sqrt{x} = 14$$

6.
$$\sqrt{-x+3} + 13 = -2$$

L4:

7.
$$3\sqrt{-x} + 1 = 3x + 7$$

$$8. \qquad \sqrt{x+1} = 5 - \sqrt{x}$$