

Radical Equations Test (B)

- Solve the given equations algebraically. **Check and verify** your solutions.
- Clearly identify whether the solution is valid or extraneous.

[4] 1. $\sqrt{5-x} + 10 = x + 7$

[4] 2. $5 + \sqrt{-2x} = 46$

[4] **3.** $\sqrt{x + 12} = \sqrt{x} + 3$

[2] **4.** One sixth of the principal root of a number is the sum of thirty and negative twenty eight.
What is the number?