

Homework

Home Worker:

Date:

Solve the following equations, checking for extraneous solutions.

1. $10\sqrt{4x+1} - 50 = 0$

2. $\sqrt{x+4} + 6 = 7$

3. $2\sqrt{n-5} + 3 = -15$

4. $\sqrt{2n+3} = \sqrt{5n-8}$

5. Write a function that is a transformation of $y = \sqrt{x}$ that has been reflected over the y-axis, vertically stretched by a factor of 12, and shifted down 2.

6. Describe the transformations that have occurred to take $y = \sqrt{x}$ to $y = -\sqrt{x+5} - 19$.

7. $x - 10 = \sqrt{141 - 4x} - 4$

8. $\sqrt{12x - 12} - x = -1$