

LT #3: Solving Radical Equations Review

Date _____ Period _____

LVL1: Solve each equation. Remember to check your solutions.

1) $6 = \sqrt{v+6}$

2) $7 = \sqrt[3]{k+4}$

LVL2: Solve each equation. Remember to check your solutions.

3) $7\sqrt{3x-20} = 14$

4) $\sqrt[3]{-6-x} = \sqrt[3]{3x+26}$

LVL3: Solve. Check for extraneous solutions.

5) $7 + (7x)^{\frac{3}{2}} = 350$

6) $k-1 = \sqrt{7k-19}$

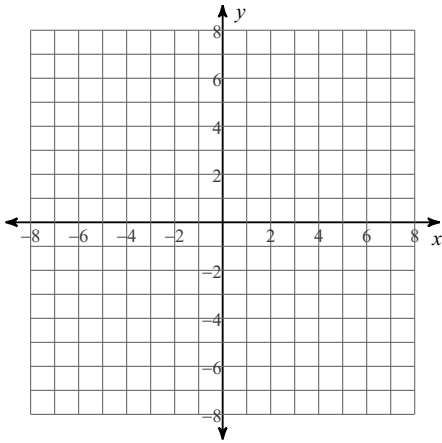
LVL4: Solve for x.

7) $(x-2)^{\frac{1}{2}} = (x-2)^{\frac{1}{4}}$

8) $\sqrt[3]{\sqrt{x-3}} = 2$

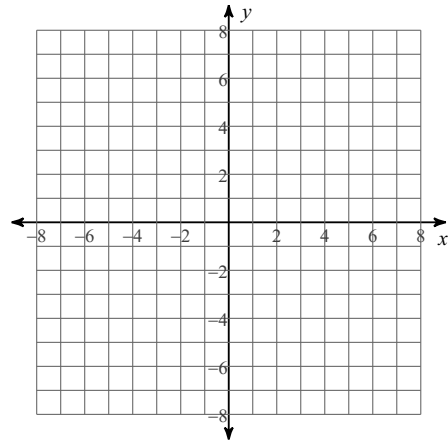
LVL 1: Graph the function.

9) $y = \sqrt{x}$



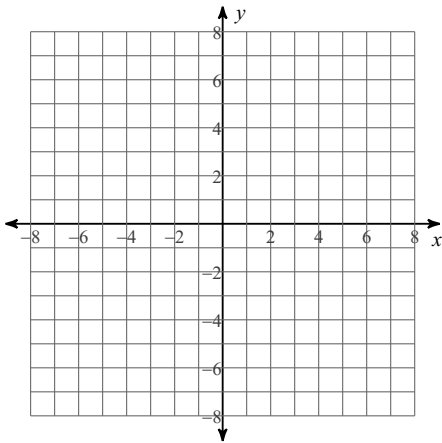
LVL 2: Graph the function.

10) $y = \sqrt{x+5} - 3$



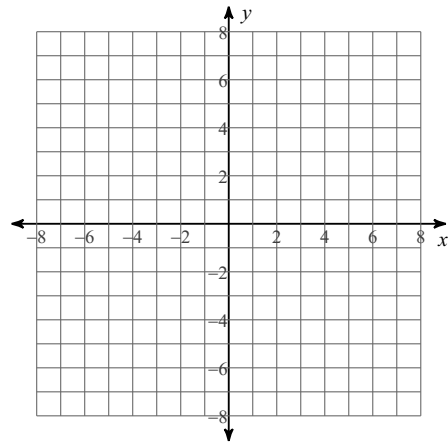
LVL 3: Graph the function and state the domain and range.

11) $y = 2\sqrt{x+6} - 3$



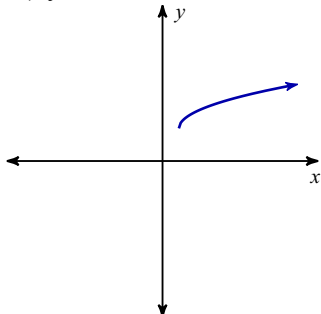
LVL 4: Graph the function and state the domain and range.

12) $y = \sqrt{x+6} - 3$

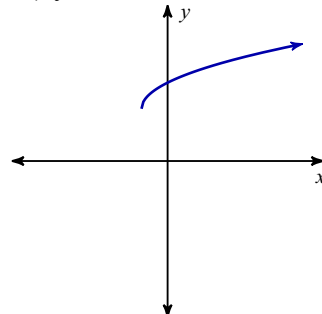


LVL 3: Match each equation to a graph. Justify each response. ie " I know this because ..."

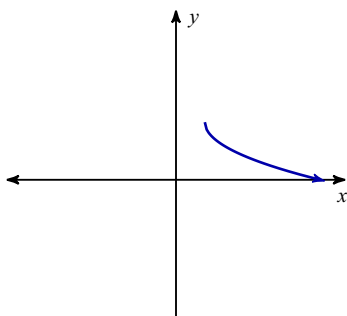
13) A) $y = -\sqrt{x+1} - 2$
 B) $y = \sqrt{x-1} + 2$



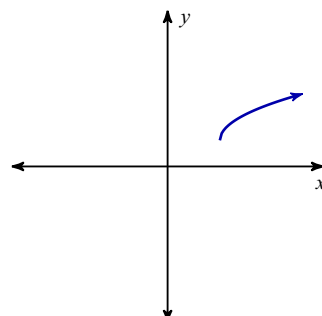
14) C) $y = \sqrt{x+1} + 2$
 D) $y = -\sqrt{x-1} + 2$



15)



16)

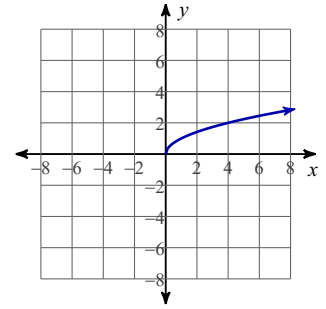


Answers to LT #3: Solving Radical Equations Review (ID: 1)

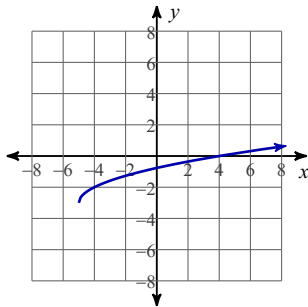
- 1) $\{30\}$
- 4) $\{-8\}$
- 7)

- 2) $\{45\}$
- 5) $\{7\}$
- 8)

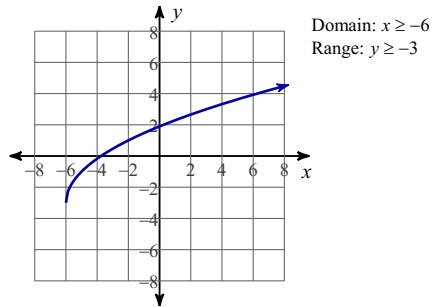
- 3) $\{8\}$
- 6) $\{4, 5\}$
- 9)



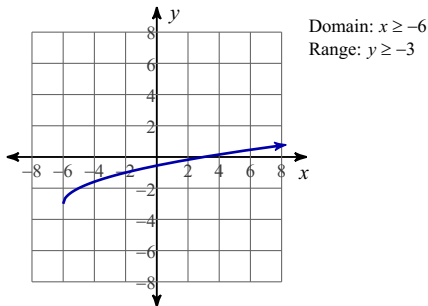
10)



11)



12)



13)

14)

15)

16)