

Worksheet #15

For #1-8, find all real solutions of the equation. Remember to check.

1) $\sqrt{2x} - 10 = 0$

2) $\sqrt{5-x} - 3 = 0$

3) $\sqrt[3]{2x+5} + 3 = 0$

4) $\sqrt[3]{3x+1} - 5 = 0$

5) $\sqrt{x+5} = \sqrt{x-5}$

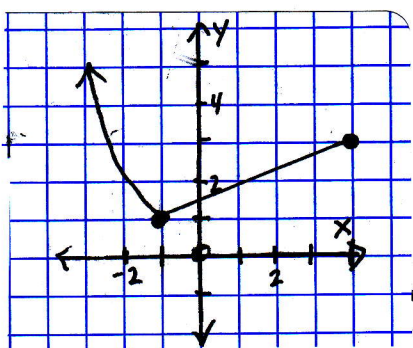
6) $\sqrt{x} + \sqrt{x-20} = 10$

7) $|3x+2| = 7$

8) $|x| = x^2 + x - 3$

For 9 and 10, explain where the graph is increasing and decreasing.

9)



10)

