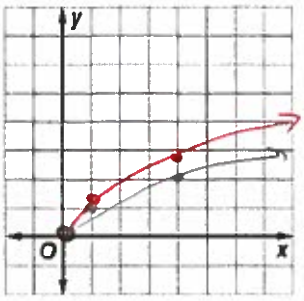
Name: Key

10-1 Practice *Square Root Functions*

Graph each function, and compare to the parent graph. State the domain and range.

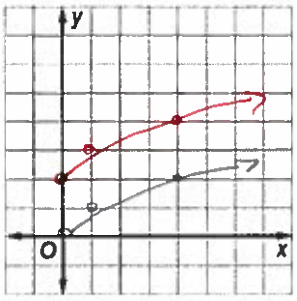
1. $y = \frac{4}{3}\sqrt{x}$



D: $x \geq 0$

R: $y \geq 0$

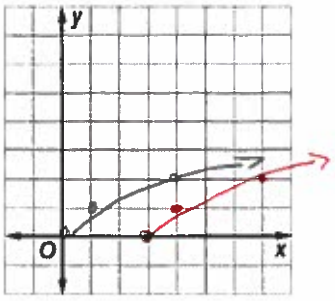
2. $y = \sqrt{x} + 2$



D: $x \geq 0$

R: $y \geq 2$

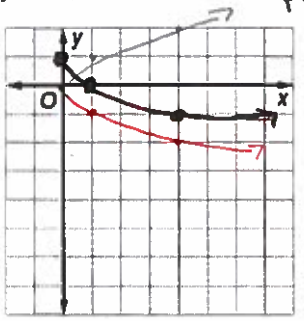
3. $y = \sqrt{x - 3}$



D: $x \geq 3$

R: $y \geq 0$

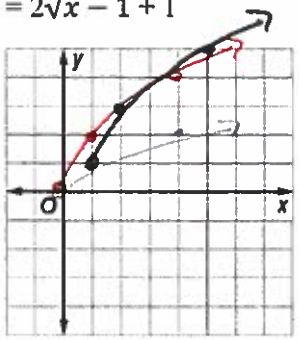
4. $y = -\sqrt{x} + 1$ Black is final



D: $x \geq 0$

R: $y \leq 1$

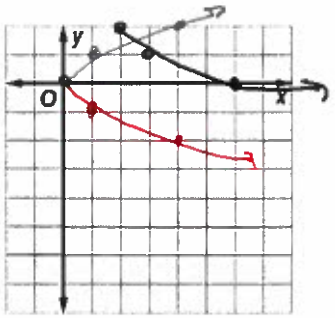
5. $y = 2\sqrt{x - 1} + 1$ Black is final



D: $x \geq 1$

R: $y \geq 1$

6. $y = -\sqrt{x - 2} + 2$ Black is final



D: $x \geq 2$

R: $y \leq 2$

7. **OHM'S LAW** In electrical engineering, the resistance of a circuit can be found by the equation $I = \sqrt{\frac{P}{R}}$, where I is the current in amperes, P is the power in watts, and R is the resistance of the circuit in ohms. Graph this function for a circuit with a resistance of 4 ohms.

$I = \sqrt{\frac{P}{4}}$

X	Y
0	0
4	1
16	2
36	3
64	4