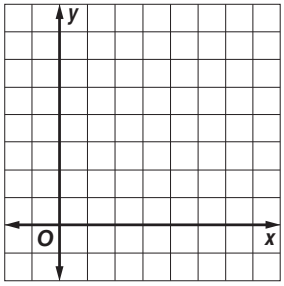
NAME _____ DATE _____ PERIOD _____

10-1 Practice

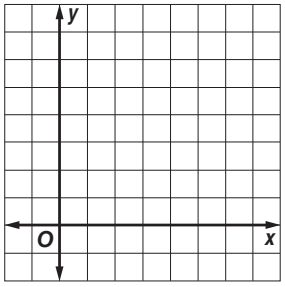
Square Root Functions

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

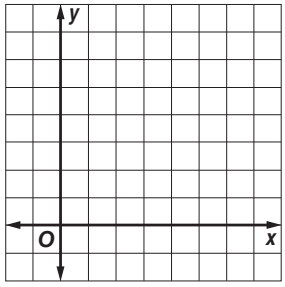
1. $y = \frac{4}{3}\sqrt{x}$



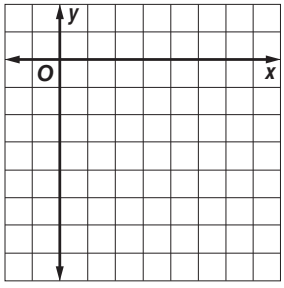
2. $y = \sqrt{x} + 2$



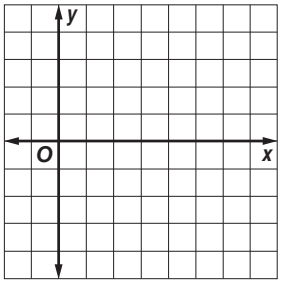
3. $y = \sqrt{x - 3}$



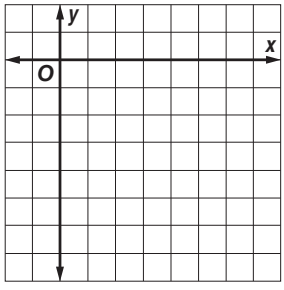
4. $y = -\sqrt{x} + 1$



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



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



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.

Use R = 4 and the values 0, 20, 40, 60, 80, and 100 for P to get the current, I, and the coordinates for 5 points to plot.