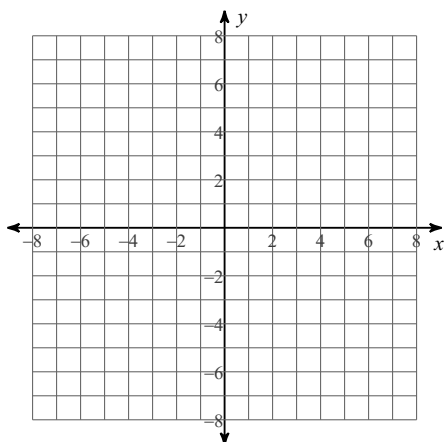


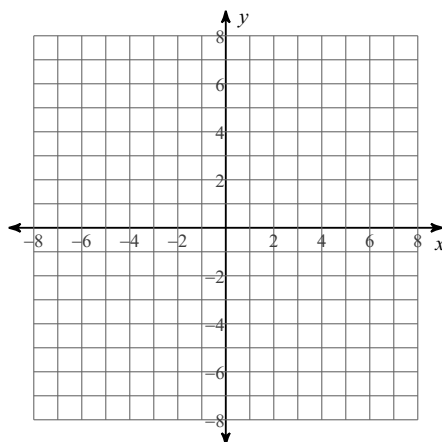
Math 2 Unit 3.5 Example Graph Radicals

Sketch the graph. Then identify the domain and range of each.

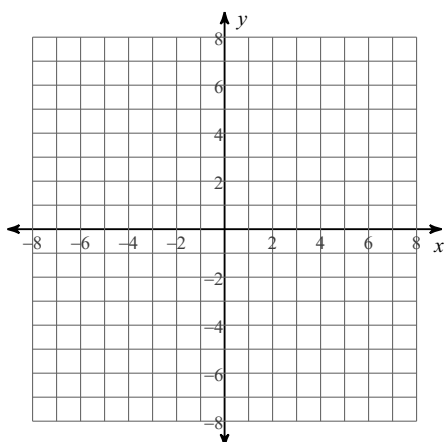
1) $y = \sqrt{x+3}$



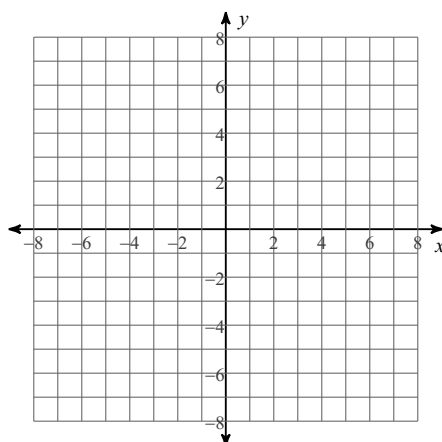
2) $y = \sqrt{x-1}$



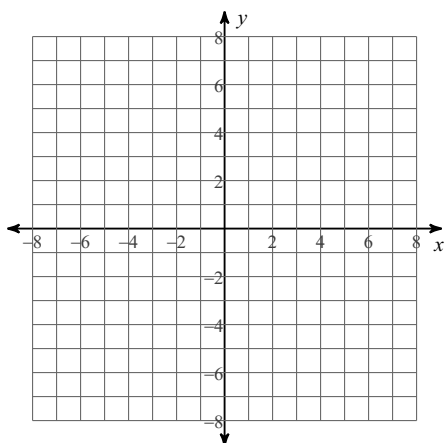
3) $y = \sqrt{x}$



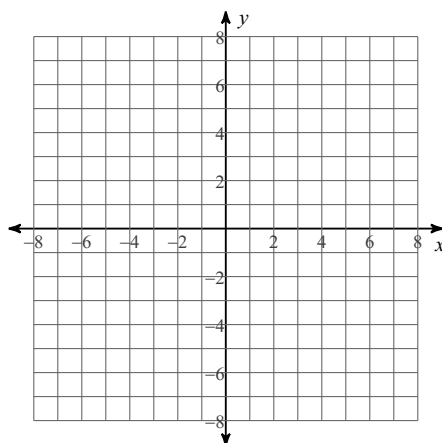
4) $y = 2\sqrt{x+5} - 1$



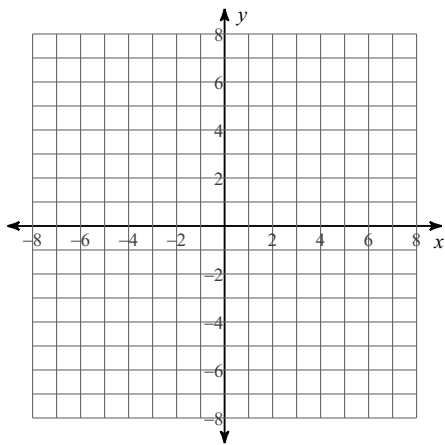
5) $y = 2\sqrt{x}$



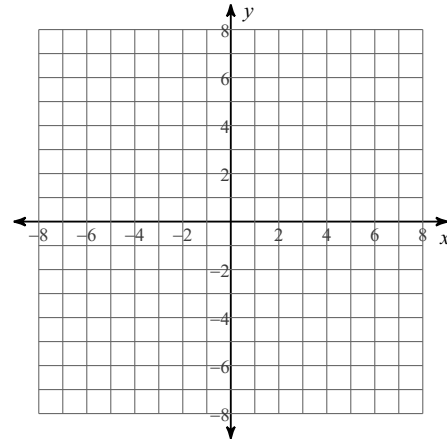
6) $y = \sqrt{x-1}$



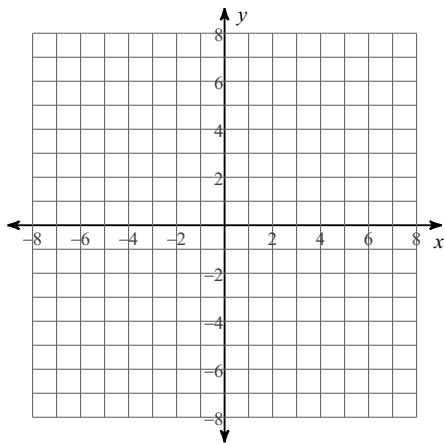
$$7) y = \sqrt{x} + 5$$



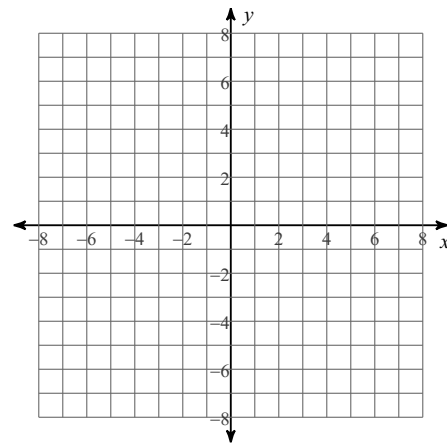
$$8) y = \sqrt{\frac{9x+9}{16}}$$



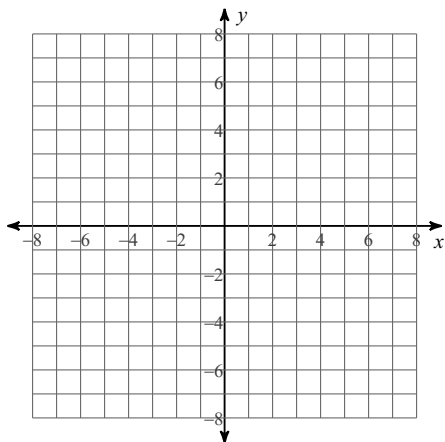
$$9) y = \sqrt{x+3} - 5$$



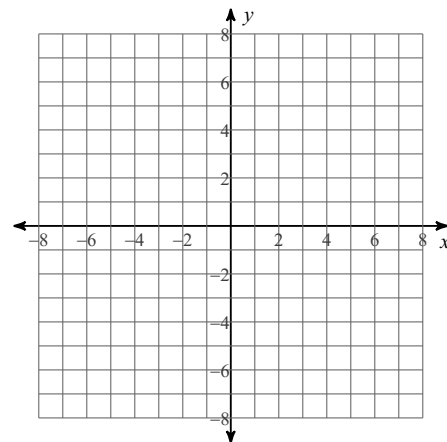
$$10) y = 3\sqrt{x-1}$$



$$11) y = -3\sqrt{x-4}$$



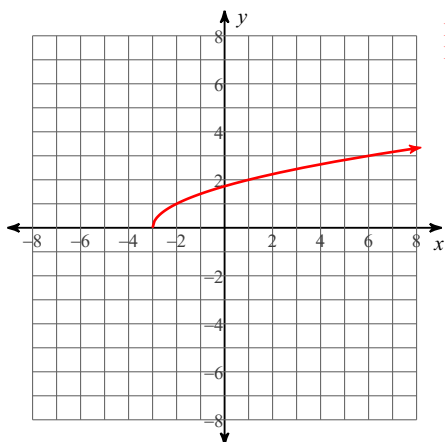
$$12) y = \sqrt{x} + 3$$



Math 2 Unit 3.5 Example Graph Radicals

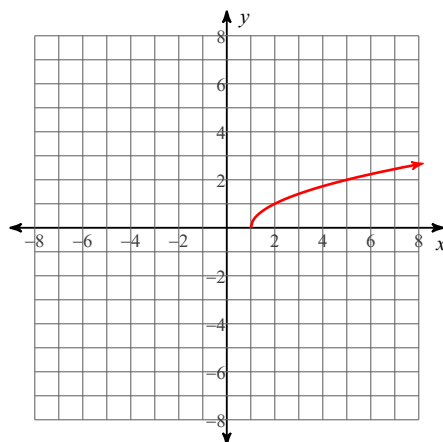
Sketch the graph. Then identify the domain and range of each.

1) $y = \sqrt{x+3}$



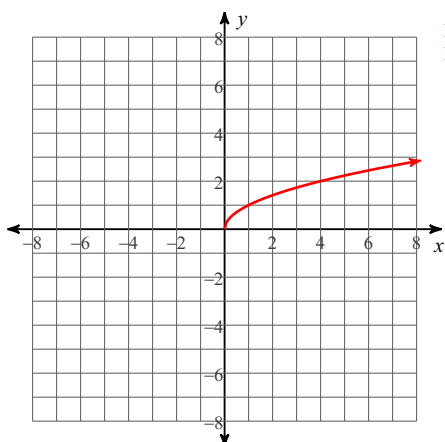
Domain: $x \geq -3$
Range: $y \geq 0$

2) $y = \sqrt{x-1}$



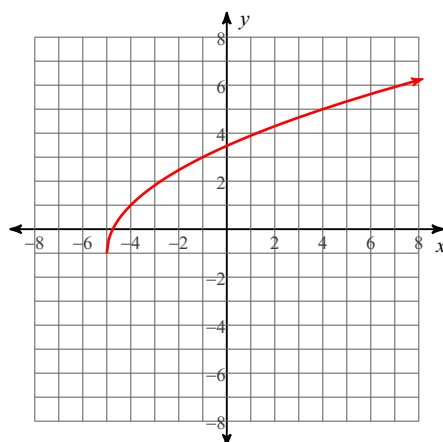
Domain: $x \geq 1$
Range: $y \geq 0$

3) $y = \sqrt{x}$



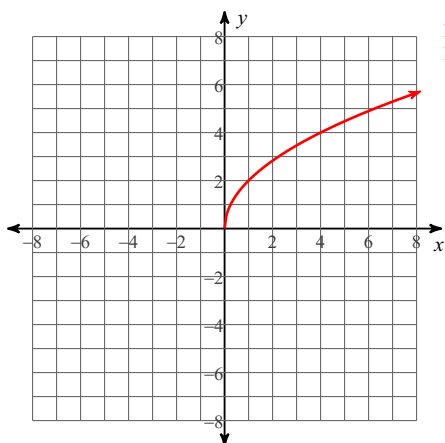
Domain: $x \geq 0$
Range: $y \geq 0$

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



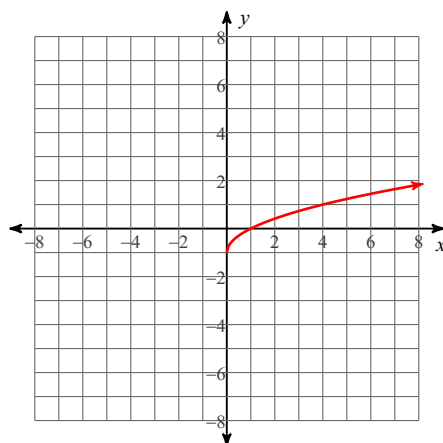
Domain: $x \geq -5$
Range: $y \geq -1$

5) $y = 2\sqrt{x}$



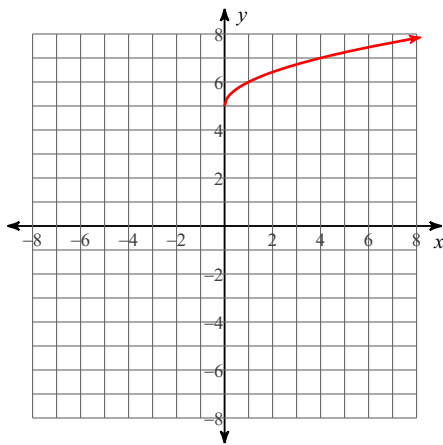
Domain: $x \geq 0$
Range: $y \geq 0$

6) $y = \sqrt{x-1}$



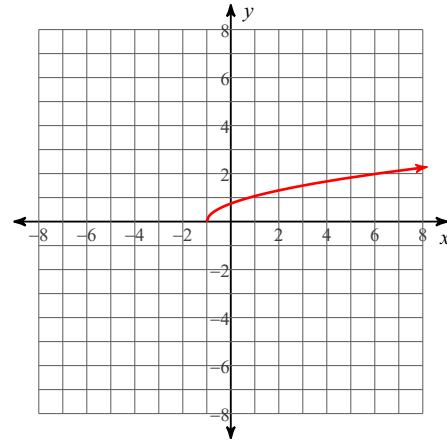
Domain: $x \geq 1$
Range: $y \geq 0$

7) $y = \sqrt{x} + 5$



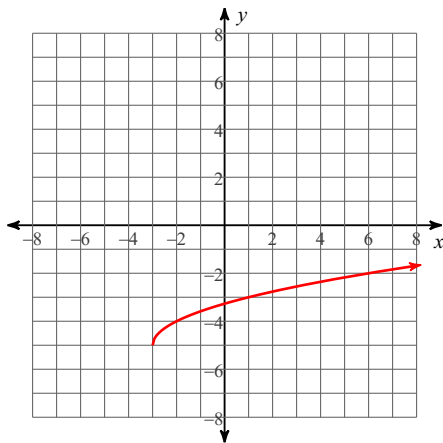
Domain: $x \geq 0$
Range: $y \geq 5$

8) $y = \sqrt{\frac{9x+9}{16}}$



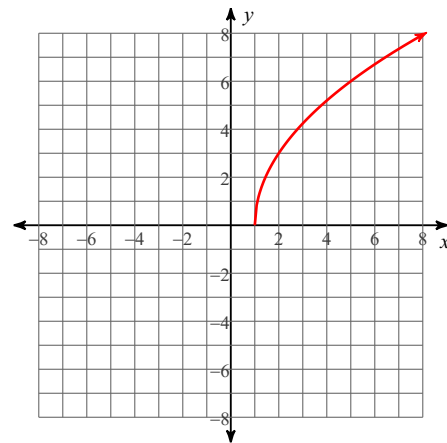
Domain: $x \geq -1$
Range: $y \geq 0$

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



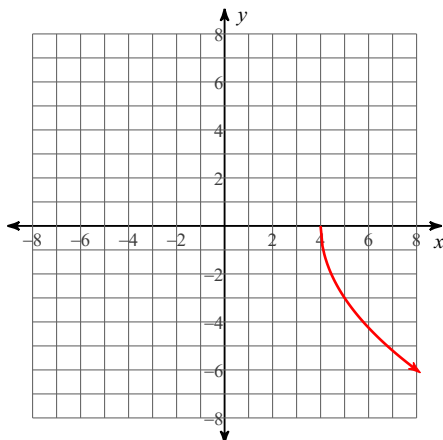
Domain: $x \geq -3$
Range: $y \geq -5$

10) $y = 3\sqrt{x-1}$



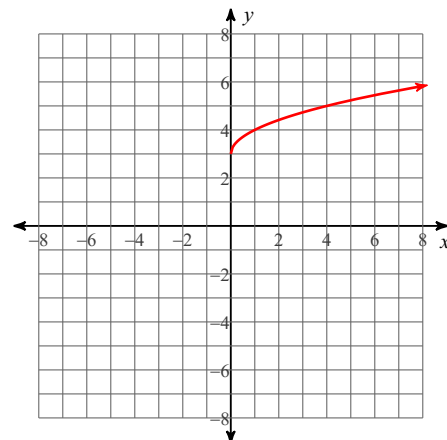
Domain: $x \geq 1$
Range: $y \geq 0$

11) $y = -3\sqrt{x-4}$



Domain: $x \geq 4$
Range: $y \leq 0$

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



Domain: $x \geq 0$
Range: $y \geq 3$