Answer Key

Practice C
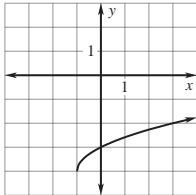
1. B **2.** A **3.** C

4.

$x \geq 3,\ y \geq 0$

5.

$x \geq -4,\ y \geq 0$

6.

$x \geq -1,\ y \geq -4$

7.

$x \geq 1,\ y \leq 3$

8.

$x \geq -1,\ y \leq -2$

9.
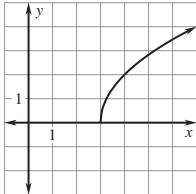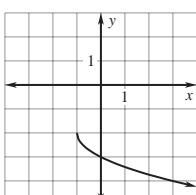
$x \geq -\frac{1}{2},\ y \geq -2$

10.

x, y are all real numbers.

11.
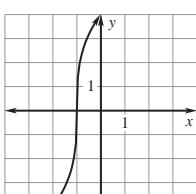
x, y are all real numbers.

12.
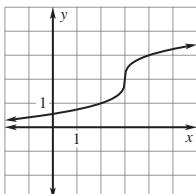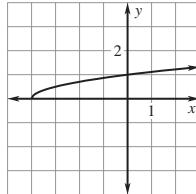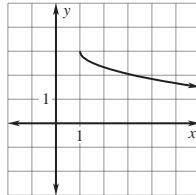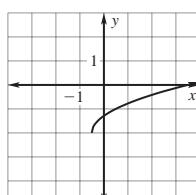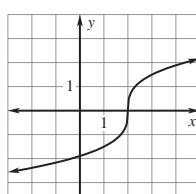
x, y are all real numbers.

13.
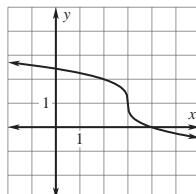
x, y are all real numbers.

14.
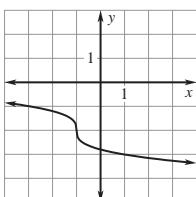
x, y are all real numbers.

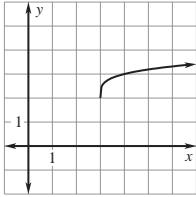**15.**

x, y are all real numbers.
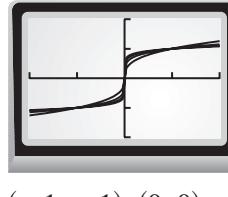
$(1, 1)$ and $(0, 0)$

16.
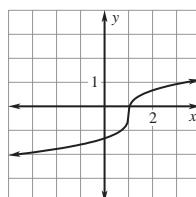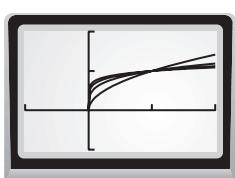
17. On the interval $(0, 1)$, the larger the root, the steeper the graph. On the interval $(1, \infty)$, the larger the root the less steep the graph.

18.

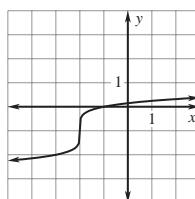

19.

$(-1, -1)$, $(0, 0)$, and $(1, 1)$

20. On the interval $(-1, 1)$, the larger the root, the steeper the graph. On the intervals $(-\infty, -1)$ and $(1, \infty)$, the larger the root, the less steep the graph.

21.

22.

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