

1. $x \geq 2$

2. $x \geq \frac{3}{4}$

3. $x \geq 0$

4. $x \geq -7$

5. $x \geq -3$

6. $x \geq 5$

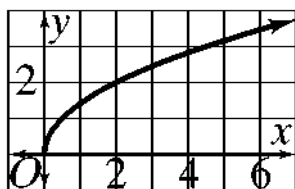
7. $x \geq -\frac{5}{3}$

8. $x \geq -2$

9. $x \geq \frac{4}{3}$

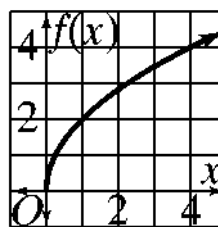
10.

x	y
0	0
2	2
4.5	3



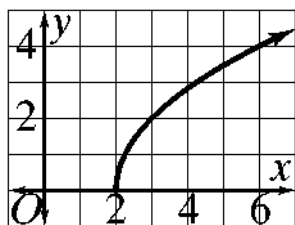
11.

x	$f(x)$
0	0
1	2
4	4



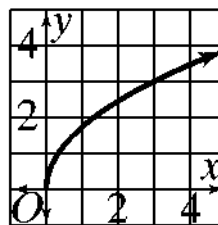
12.

x	y
2	0
3	2
6	4



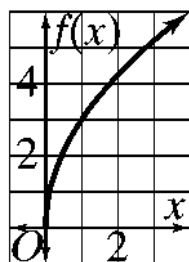
13.

x	y
0	0
3	3
$5\frac{1}{3}$	4



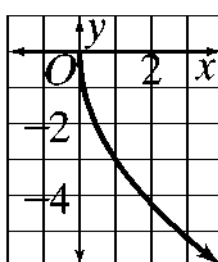
14.

x	$f(x)$
0	0
1	3
4	6



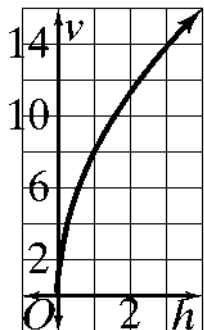
15.

x	y
0	0
1	-3
4	-6



16.

h	v
0	0
1	8
4	16

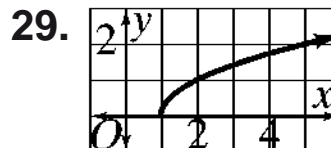
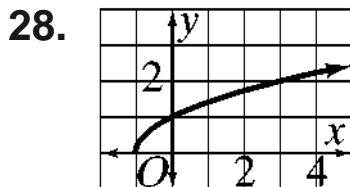
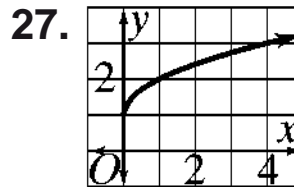
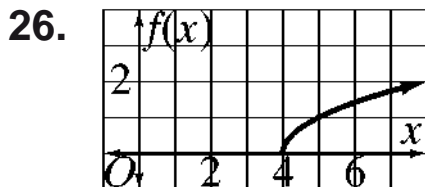
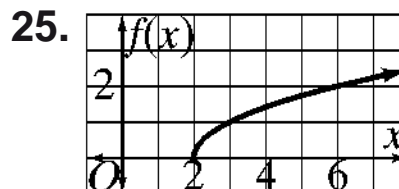
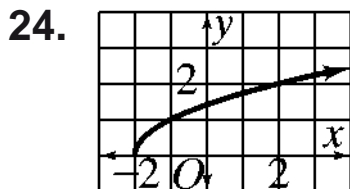
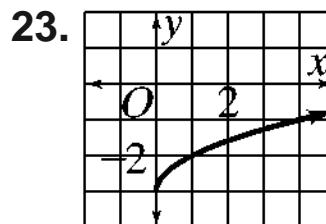
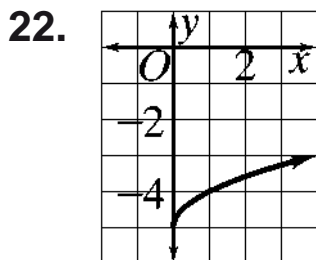
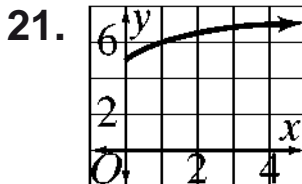


17. D

18. A

19. C

20. B



30. $x \geq 4; y \geq 0$

31. $x \leq 4; y \geq 0$

- 32.** Form an inequality setting the radicand ≥ 0 . Solve for x .
 Answers may vary. Sample:

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

$$\text{Domain: } x - 2 \geq 0$$

$$x \geq 2$$

- 33. a-d.** Answers may vary. Samples:

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

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

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

d. Check students' work.

- 34.** Translate the graph of $y = \sqrt{x}$ 8 units to the left.

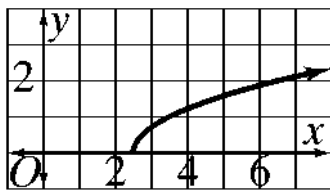
- 35.** Translate the graph of $y = \sqrt{x}$ 10 units down.

- 36.** Translate the graph of $y = \sqrt{x}$ 12 units up.

- 37.** Translate the graph of $y = \sqrt{x}$ 9 units right.

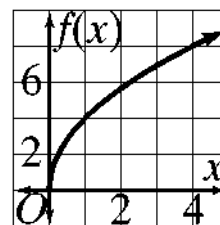
38.

x	y
2.5	0
3.5	1
6.5	2



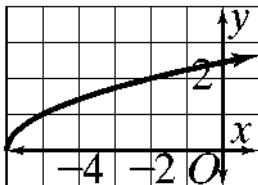
39.

x	$f(x)$
0	0
1	4
2	5.7
4	8



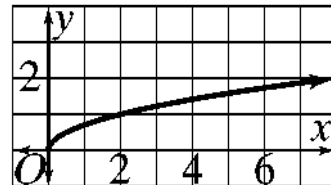
40.

x	y
-6	0
-5	1
-2	2
0	2.4



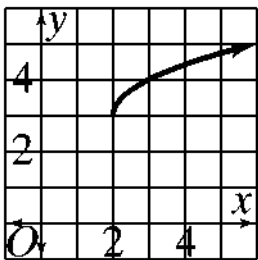
41.

x	y
0	0
2	1
4	1.4
8	2



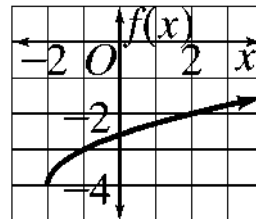
42.

x	y
2	3
3	4
6	5



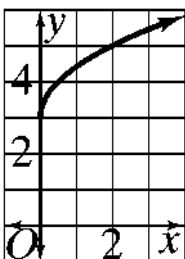
43.

x	$f(x)$
-2	-4
-1	-3
2	-2



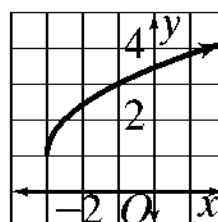
44.

x	y
0	3
1	4.4
2	5
3	5.4



45.

x	y
-3	1
-2	2.4
-1	3
0	3.4

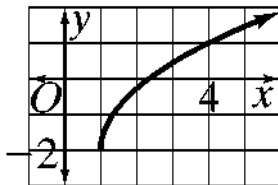


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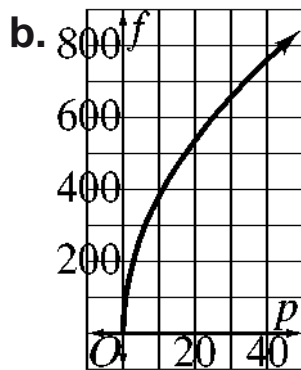
46.

x	y
1	-2
2	-0.3
3	0.4
4	1

47. D



48. a. $p \geq 0$



c. about 45 lb/in².

49. a. no

b. Answers may vary. Sample: The graph of $y = \sqrt{x}$ is the first quadrant portion of the graph of $x = y^2$.

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

50. $y = 3\sqrt{x}$ rises more steeply because for $3\sqrt{x} > \sqrt{3x}$ all positive values of x .

51. False; x must equal 81.

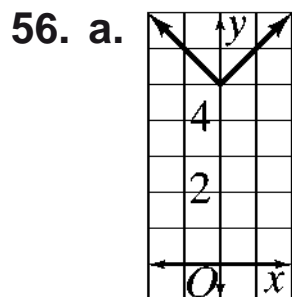
52. False; only combine like terms.

53. true

54. False; $x = -1$.

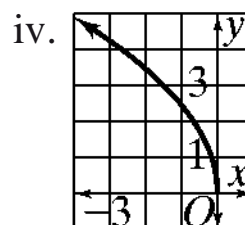
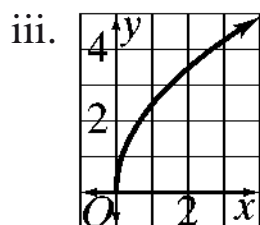
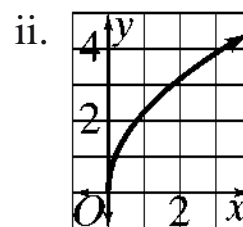
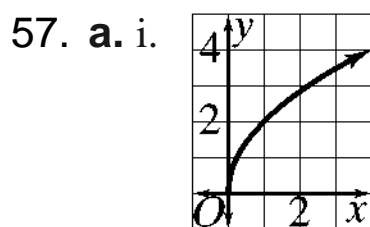
55. a. about 213 cameras

b. month 4



b. $y = |x| + 5$

57. Translate the graph of $y = \sqrt{x}$ right 2 units and up 3 units.



b. The greater the absolute value of n , the steeper the graph. If $n < 0$, then the graph lies in Quadrant II. If $n > 0$, the graph lies in Quadrant I.

59. Check students' work.

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