

2.5 & 2.6

x	y
-2	7
-1	3
0	-1
1	3
2	7

graph on
graph
paper

10. GP

$$26. y = \left| \frac{1}{2}x - 4 \right| + 4$$

$$y - 4 = \left| \frac{1}{2}x - 4 \right|$$

when: $\frac{1}{2}x - 4 \geq 0$ when: $\frac{1}{2}x - 4 < 0$

$$y - 4 = \frac{1}{2}x - 4$$
$$y = \frac{1}{2}x + 0$$

$$y - 4 = -\left(\frac{1}{2}x - 4\right)$$
$$y - 4 = -\frac{1}{2}x + 4$$
$$y = -\frac{1}{2}x + 8$$

in

3. the second function, each point has moved up 2 from where it was in the first function.

$$6. y = -x + 4$$

parent function $y = -x$
 $k = 4$

graph on GP

$$9. y = x - \frac{2}{3}$$

$$12. y = |x - 4|$$

parent function $y = |x|$

GP
 $h = 4$

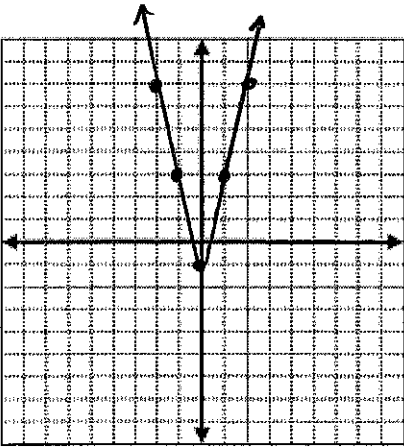
18. $y = -|x-4|$

21. GP

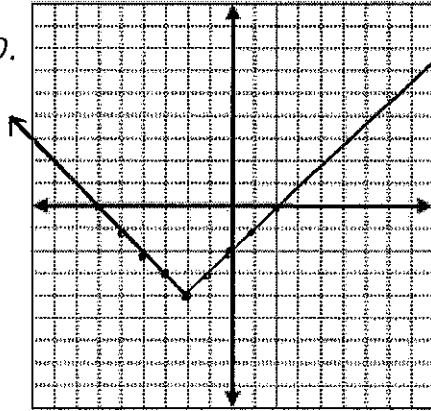
27. $y = |x-3| - 1$

2.5 & 2.6

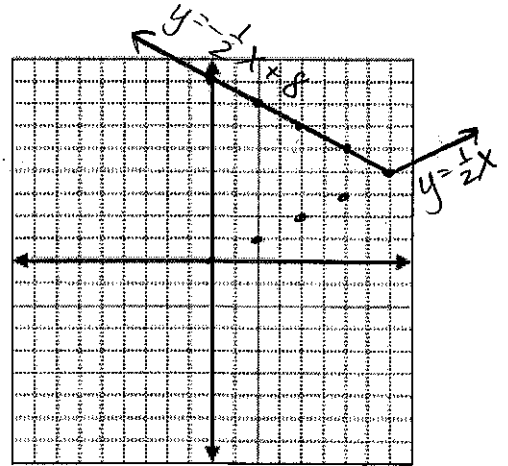
2.



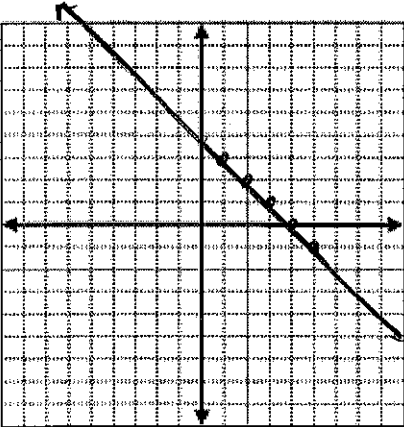
10.



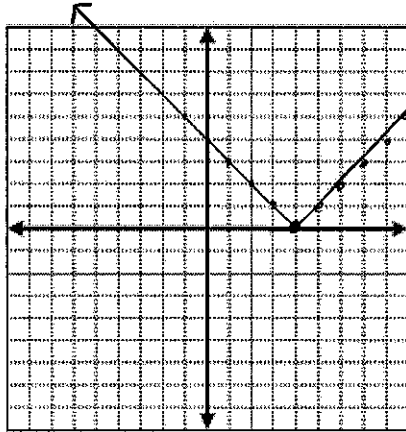
26.



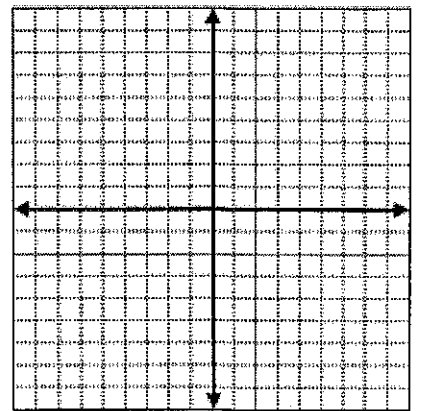
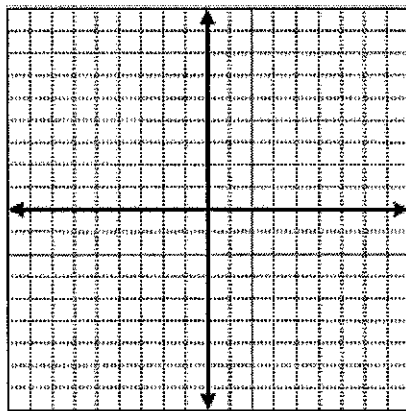
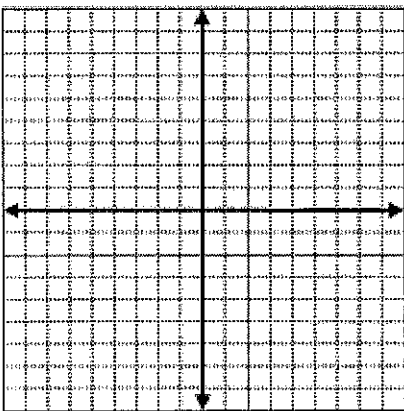
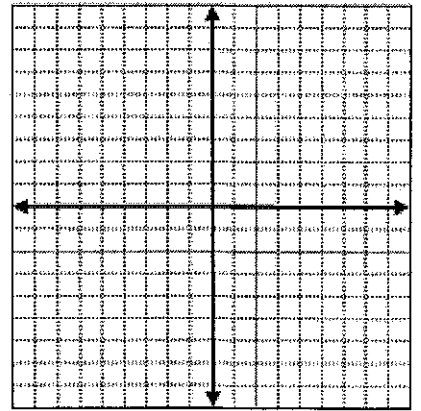
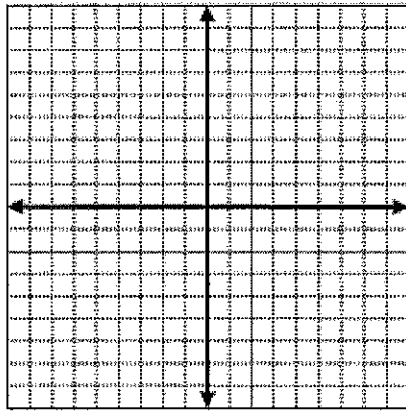
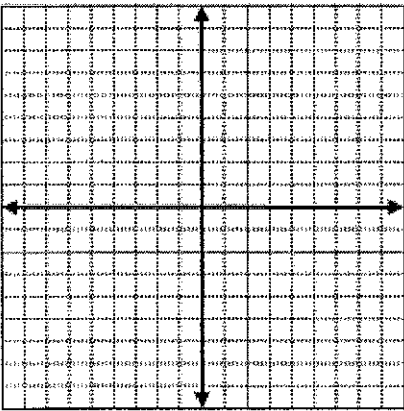
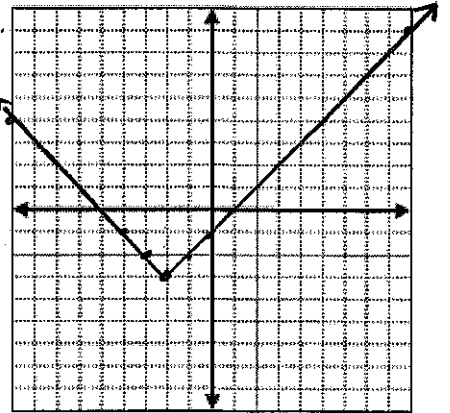
6.



12.



21.

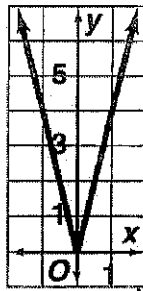


Answers for Lesson 2-5, pp. 88-90 Exercises

1-9. Tables may vary. Samples are given.

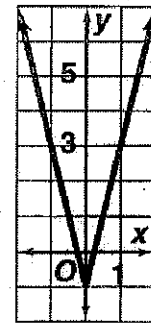
1.

x	0	-1	1	-2	2
y	0	4	4	8	8



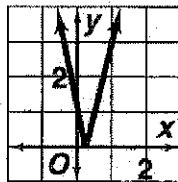
2.

x	-2	-1	0	1	2
y	7	3	-1	3	7



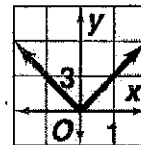
3.

x	-1	0	$\frac{1}{2}$	1	2
y	5	1	0	3	7



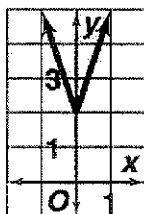
4.

x	-2	-1	0	1	2
y	6	3	0	3	6



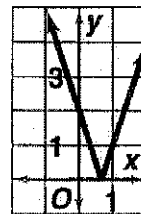
5.

x	-2	-1	0	1	2
y	8	5	2	5	8



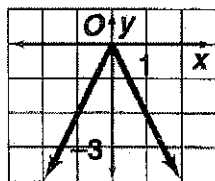
6.

x	-1	0	$\frac{2}{3}$	1	2
y	5	2	0	1	4



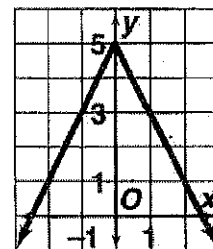
7.

x	-2	-1	0	1	2
y	-4	-2	0	-2	-4



8.

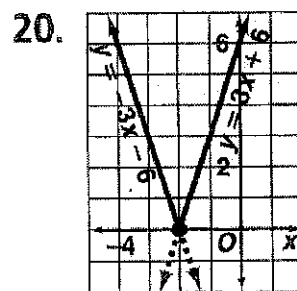
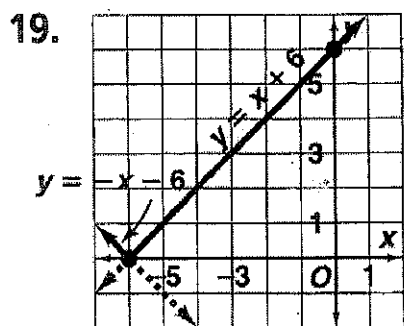
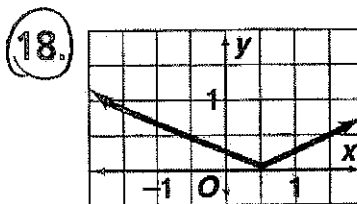
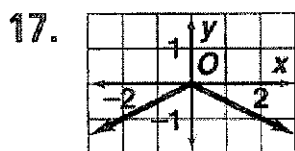
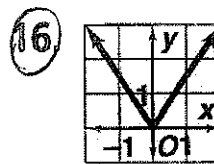
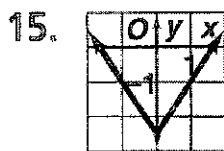
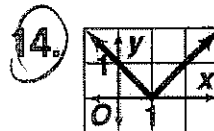
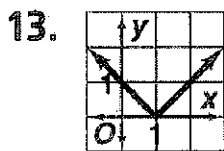
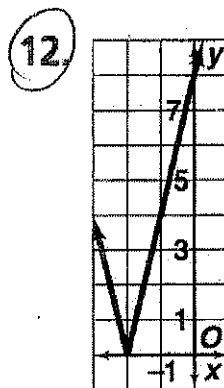
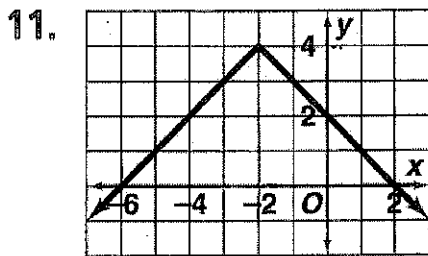
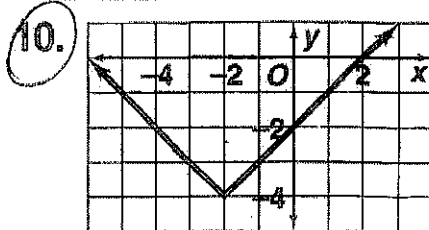
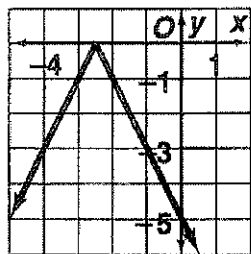
x	-2	-1	0	1	2
y	1	3	5	3	1



Answers for Lesson 2-5, pp. 88–90 Exercises (cont.)

9.

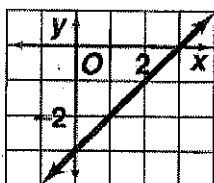
x	-4	-3	$-\frac{5}{2}$	-1	0
y	-3	-1	0	-3	-5



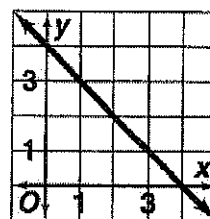
Answers for Lesson 2-6, pp. 95-98 Exercises

1. $y = -|x| + 3$ is $y = -|x|$ 3 units up.
2. $f(x) = |x| - 1$ is $f(x) = |x|$ one unit down.
- ③ $g(x) = |3x| + 2$ is $g(x) = |3x|$ 2 units up.
4. $y = \frac{1}{2}|x| - \frac{2}{3}$ is $y = \frac{1}{2}|x|$ $\frac{2}{3}$ units down.

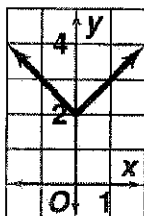
5. $y = x, k = 3$



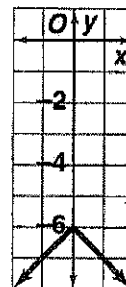
⑥ $y = -x, k = 4$



7. $y = |x|, k = 2$



8. $y = -|x|, k = 6$



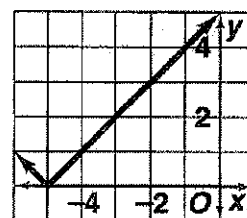
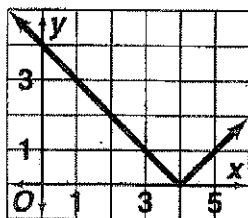
⑨ $y = x - \frac{2}{3}$

10. $y = |x| + 4$

11. $y = -|x| + 2$

⑫ $y = |x|, h = 4$

13. $y = |x|, h = 5$



14. $y = -|x|, h = 1$

⑮ $y = -|x|, h = 2$



16. $y = |x + 2|$

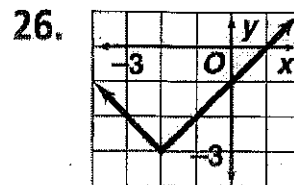
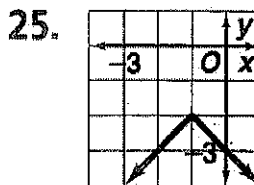
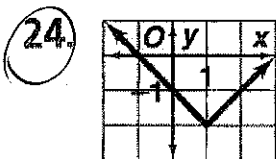
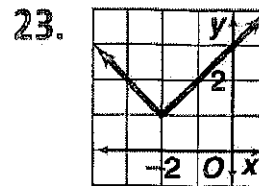
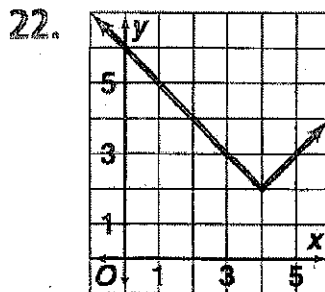
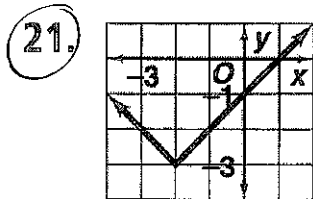
17. $y = |x - 3|$

⑰ $y = -|x - 4|$

Answers for Lesson 2-6, pp. 95–98 Exercises (cont.)

19. Answers may vary. Sample: 1 unit left and 1 unit up

20. Answers may vary. Sample: $\frac{6}{5}$ units left and 1 unit up



27. $y = |x - 3| - 1$

28. $y = -|x + 1| + 2$

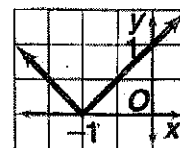
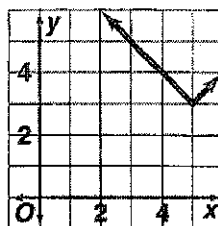
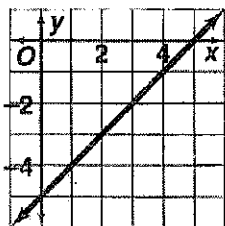
29. $y = -|x - \frac{5}{2}| + \frac{1}{2}$

30. $y = |x - 7| + 3$

31. vertical

32. diagonal

33. horizontal



$y = |x + 1|$

34. vertical

35. vertical

36. vertical

