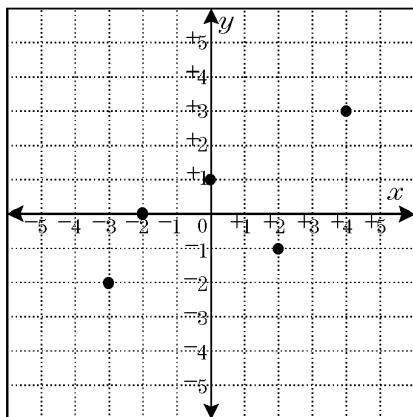


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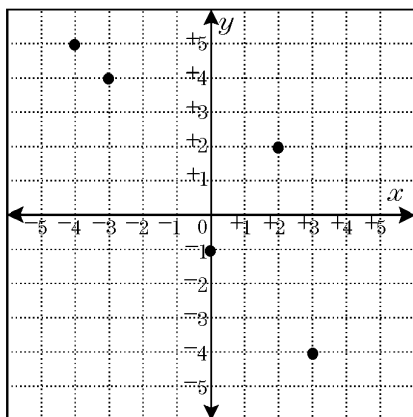
Date: _____

1. Compare the graph for $g(x)$ and the table for $h(x)$. Which has the smaller range?



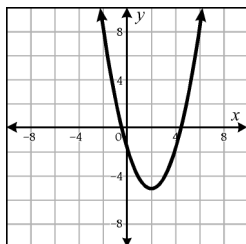
x	$h(x)$
-4	5
-3	4
0	-1
2	2
3	-4

2. Compare the graph for $g(x)$ and the table for $h(x)$. Which has the larger domain?



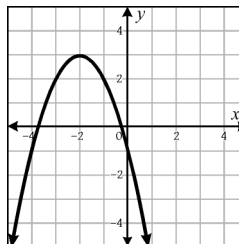
x	$h(x)$
-6	-2
-3	1
0	-3
1	-7
2	4

3. Given the graph for one quadratic function and the table of values for another, determine which has a smaller minimum.



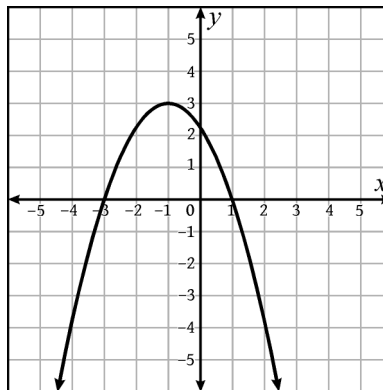
x	$g(x)$
-3	35
-2	21
-1	11
0	5
1	3
2	5
3	11

4. Given the graph for one quadratic function and the table of values for another, determine which has a smaller maximum.

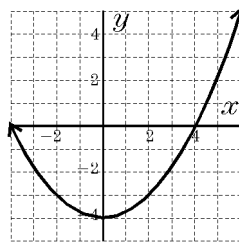


x	$g(x)$
-3	1
-2	2
-1	1
0	-2
1	-7
2	-14
3	-23

5. Given the graph below for $f(x)$ and the equation $g(x) = -2x^2 + 4x - 3$, which has the greater maximum?



6. Given the graph below for $f(x)$ and the equation $g(x) = 3x^2 - 12x + 17$, which has the greater minimum?



7. Determine which quadratic function has a larger minimum.

$$f(x) = x^2 + 2x - 3$$

x	-2	-1	0	1	2
$g(x)$	-5	-6	-5	-2	3

8. Determine which quadratic function has a smaller maximum.

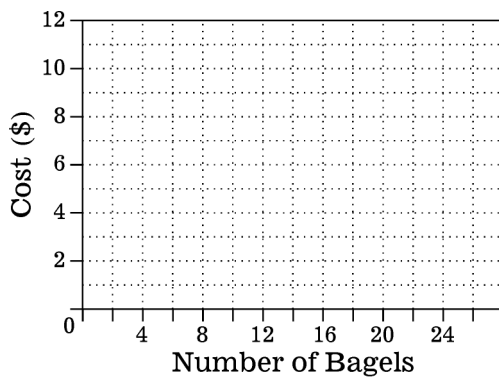
$$f(x) = -2(x + 3)(x - 1)$$

x	-2	-1	0	1	2
$g(x)$	0	3	4	3	0

9. A bakery sells bagels at the following prices.

Number of Bagels	Cost
5	\$2.25
9	\$3.65
12	\$4.70
15	\$5.75

Draw the relationship on the grid provided.



Another bakery sells bagels at the following prices.

- I. 2 bagels for \$1.35
- II. 10 bagels for \$4.15
- III. 20 bagels for \$7.00
- IV. 24 bagels for \$7.50

Which of these are good deals compared to the first bakery?

- A. I only
- B. III only
- C. III and IV only
- D. all are good deals

10. Another bakery sells bagels at the following prices.

- I. 3 bagels for \$1.45
- II. 8 bagels for \$3.00
- III. 11 bagels for \$10.55
- IV. 15 bagels for \$6.50

Which of these are good deals compared to the first bakery?

- A. I only
- B. I and II only
- C. II, III and IV only
- D. all are good deals

- 11. If $f(x) = 2x^2$, write $f(x - 2)$ as a polynomial without parentheses.
- 12. If $f(x) = 3x^2$, then $f(x - 3)$ is equivalent to:
- 13. If $f(x) = 2x + 1$ and $g(x) = x^2 + 2x + 1$, find $f(g(x))$.
- 14. If $f(x) = 2x + 1$ and $g(x) = x^2 + 2x + 1$, find $g(f(x))$.
- 15. Give an equation of a cubic function that has x -intercepts of -2 , 3 , and 4 .
- 16. Give an equation of a cubic function that has x -intercepts of -3 , 2 , and 5 .