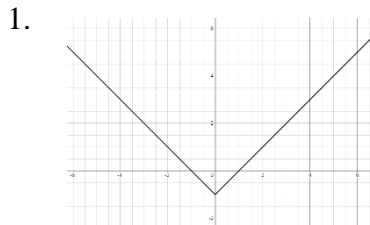


Algebra 2
Quiz 1.1-1.2

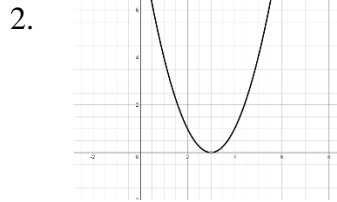
NAME _____

Write the letter for the best answer.

Identify the function family to which f belongs such as: Linear(L), Absolute Value(A), or Quadratic(Q). Then identify the domain and range. (1 Point)



- A. A, D=($x < -1$), R=(\mathbb{R}) B. A, D=(\mathbb{R}), R=($y > -1$)
C. A, D=($x > -1$), R=(\mathbb{R}) D. A, D=(\mathbb{R}), R=($y < -1$)

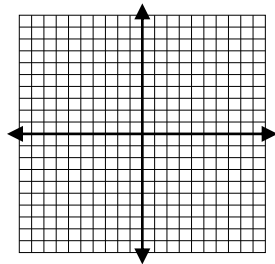


- A. Q, D=(\mathbb{R}), R=($y > 0$) B. Q, D=(\mathbb{R}), R=($y > 3$)
C. Q, D=(\mathbb{R}), R=($y < 0$) D. Q, D=(\mathbb{R}), R=($y < 3$)

Graph the function and then describe the transformation. (2 Points)

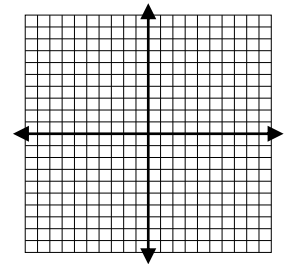
3. $y = (x - 2)^2 + 3$

- A. 2 units left, 3 up
B. 2 units right, 3 up
C. 3 units left, 2 up
D. 3 units left, 2 up



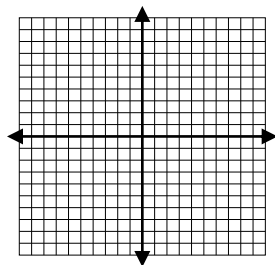
4. $y = |x + 4| - 6$

- A. 4 units left, 6 down
B. 4 units right, 6 down
C. 6 units left, 4 up
D. 6 units right, 4 down



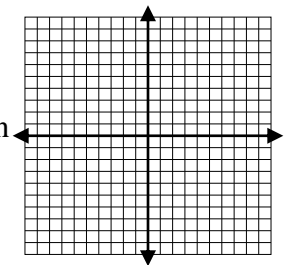
5. $y = \frac{1}{3}x^2 + 2$

- A. 2 units down, stretch
B. 2 units down, shrink
C. 2 units up, stretch
D. 2 units up, shrink



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

- A. 5 units right, stretch, reflection
B. 5 units right, shrink reflection
C. 5 units left, stretch, reflection
D. 5 units left, shrink, reflection



Write a function g whose graph represents the indicated transformation of the graph of f . (1 Point)

7. $f(x) = |x + 3|$, translated 4 down

8. $f(x) = (x - 2)^2 - 1$, translated 4 left

A. $g(x) = |x + 7|$

B. $g(x) = |x - 1|$

A. $g(x) = (x - 6)^2 - 1$

B. $g(x) = (x - 2)^2 - 5$

C. $g(x) = |x + 3| - 4$

D. $g(x) = |x + 7| + 3$

C. $g(x) = (x + 2)^2 - 1$

D. $g(x) = (x - 2)^2 + 3$

9. $f(x) = |x + 6| - 7$, translated 3 down, vertical stretch of 4

A. $g(x) = 4|x + 3| - 10$

B. $g(x) = \frac{1}{4}|x + 3| - 10$

C. $g(x) = 4|x + 6| - 40$

D. $g(x) = \frac{1}{4}|x + 6| - 40$

10. $f(x) = (x + 3)^2 + 5$, translated 4 up, vertical shrink of $\frac{1}{3}$, reflection

A. $g(x) = -3(x + 3)^2 + 9$

B. $g(x) = -3(x + 3)^2 + 3$

C. $g(x) = -\frac{1}{3}(x + 3)^2 + 9$

D. $g(x) = -\frac{1}{3}(x + 3)^2 - 3$