

## PC12 LG 1A (Formative Assessment)

Marking Teacher: \_\_\_\_\_

Name: \_\_\_\_\_

Student #: \_\_\_\_\_

1. Describe in words how the graph of the following function can be found from the graph of  $y = f(x)$ :

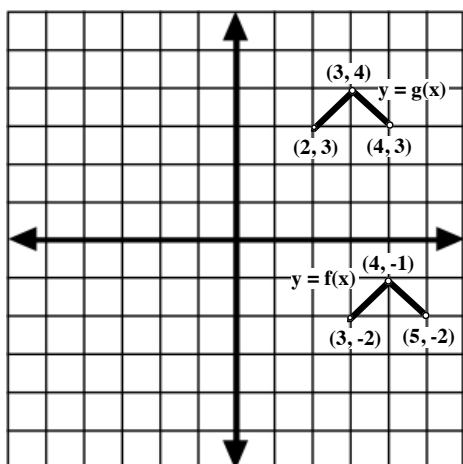
$$y - 5 = -f(x + 4)$$

- 
2. If  $(-2, 5)$  is a point on the graph of  $y = g(x)$ , find a point on the graph of  $y = g(x + 3) - 4$ .

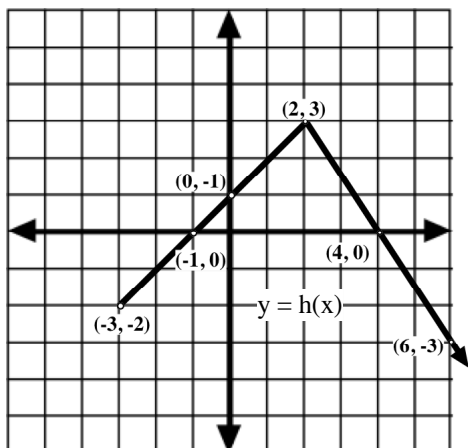
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3. The graph of  $y = x^3$  is translated 5 units to the left and 4 units down to form the transformed function  $y = g(x)$ . Determine the equation of the function  $y = g(x)$ .

4. The domain of the function  $y = h(x)$  is  $-2 < x \leq 6$  and the range is  $4 \leq y < 10$ . Find the domain and range of the function  $y - 1 = -h(x + 6)$ .

5. Given the graph of  $y = g(x)$  below, find the equation of the transformed function  $y = f(x)$ .



6. Given the graph of  $y = h(x)$ , sketch the graph of  $y = -h(x - 1) + 3$ .



## PC12 LG 1B (Formative Assessment)

Marking Teacher: \_\_\_\_\_

Name: \_\_\_\_\_

Student #: \_\_\_\_\_

1. Describe in words how the graph of the following function can be found from the graph of  $y = f(x)$ :

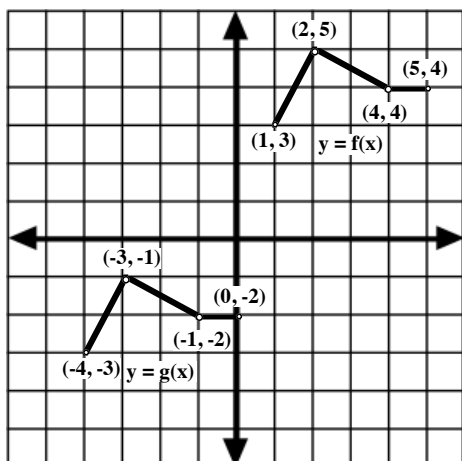
$$y = -f(x - 6) - 3$$

- 
2. If  $(4, -6)$  is a point on the graph of  $y = g(x)$ , find a point on the graph of  $y = g(x - 2) + 5$ .

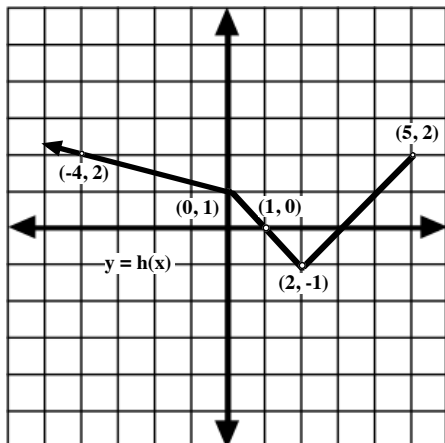
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3. The graph of  $y = x^2$  is translated 3 units to the right and 5 units up to form the transformed function  $y = g(x)$ . Determine the equation of the function  $y = g(x)$ .

4. The domain of the function  $y = h(x)$  is  $-4 < x \leq -1$  and the range is  $-2 < y \leq 6$ . Find the domain and range of the function  $y - 1 = -h(x + 6)$ .

5. Given the graph of  $y = g(x)$  below, find the equation of the transformed function  $y = f(x)$ .



6. Given the graph of  $y = h(x)$ , sketch the graph of  $y = h(x + 2) - 1$ .



Directions:  See me about this  Move on to next guide  Review and redo