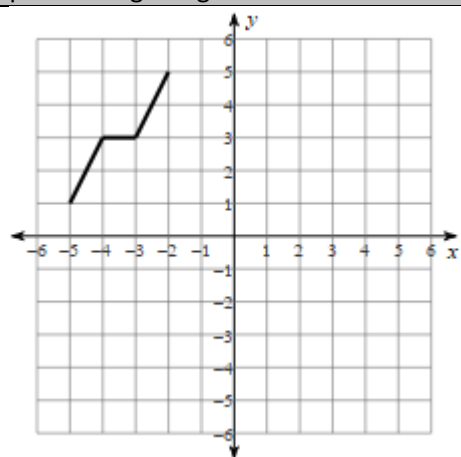


Directions: a) Perform the translation on the given function (right on graph). B) Then, write $g(x)$ in terms of $f(x)$ after performing the given transformations.



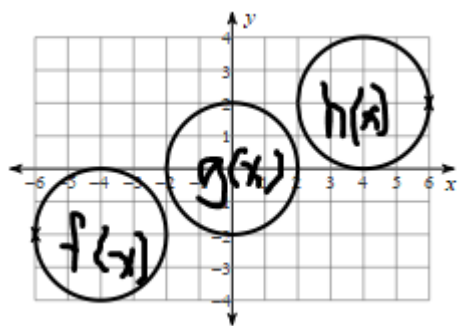
1a) Translate the graph units to the 5 right and 6 units down.

2a) Translate the graph 2 units right.

b) Write $g(x)$ in terms of $f(x)$.

b) Write $g(x)$ in terms of $f(x)$.

Directions: a) Describe the shift from $f(x)$ to the given function. b) Write $g(x)$ in terms of $f(x)$ after performing the given transformations.



3a) Describe the shift from $f(x)$ to $g(x)$

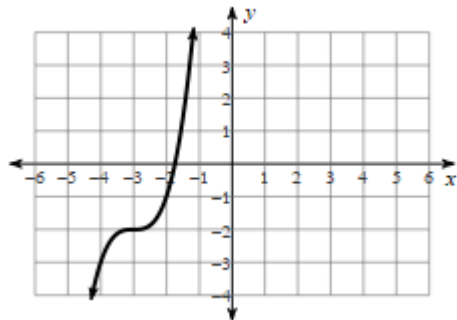
4a) Describe the shift from $f(x)$ to $h(x)$

b) Write $g(x)$ in terms of $f(x)$.

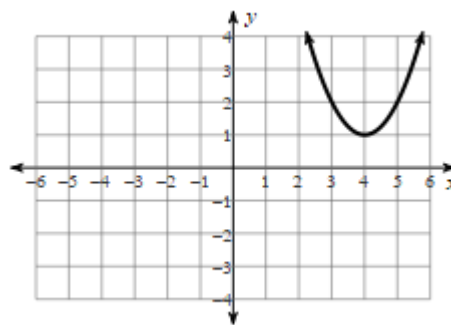
b) Write $h(x)$ in terms of $f(x)$.

Directions: Write the equation of each graph.

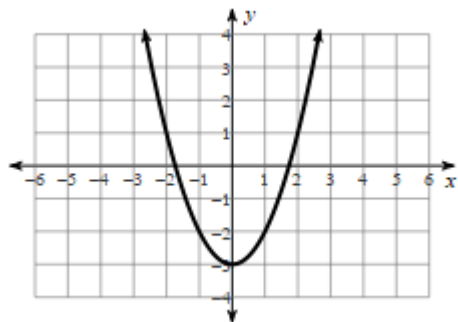
5)



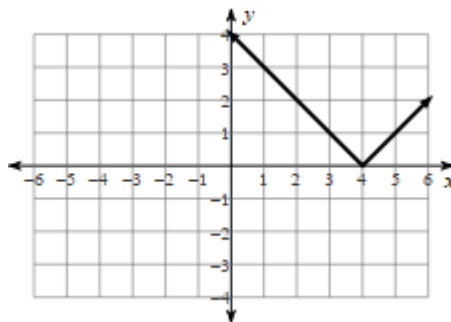
6)

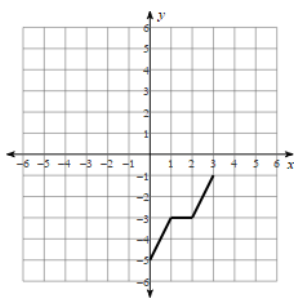


7)



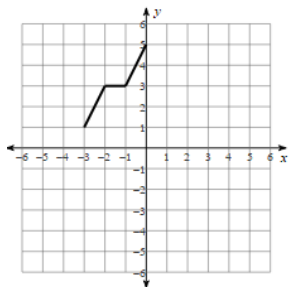
8)





1a)

1b) $g(x) = f(x - 5) - 6$



2a)

2b) $g(x) = f(x - 2)$

3a) It shifts right four units and up two units. 3b) $g(x) = f(x - 4) + 2$ 4a) It shifts right 8 units, and up 4. 4b) $g(x) = f(x - 8) + 4$

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

6) $f(x) = (x - 4)^2 + 1$

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

8) $f(x) = |x - 4|$