

Alg 2 1.3 Homework

Question 1.

Describe how to transform the graph of $f(x) = x^2$ to obtain the graph of the related function $g(x)$. Then select the graph of $g(x)$.

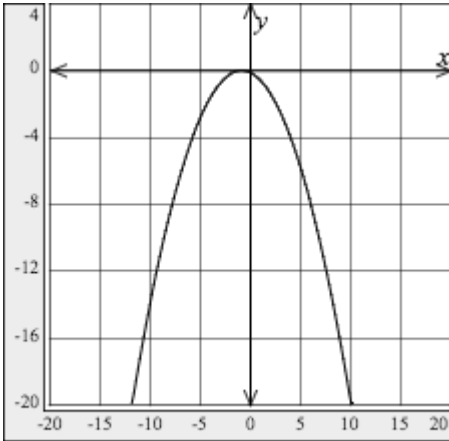
$$g(x) = -\frac{1}{6}f(x + 1)$$

The graph of $g(x) = -\frac{1}{6}f(x + 1)$ is a reflection of the graph of $f(x)$ across the , a

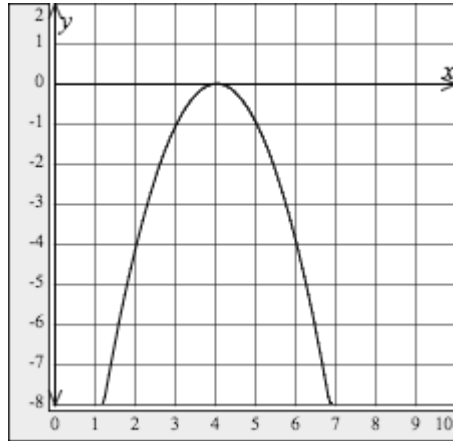
by a factor of , and a translation of 1 unit(s) .

Select the correct graph of $g(x)$.

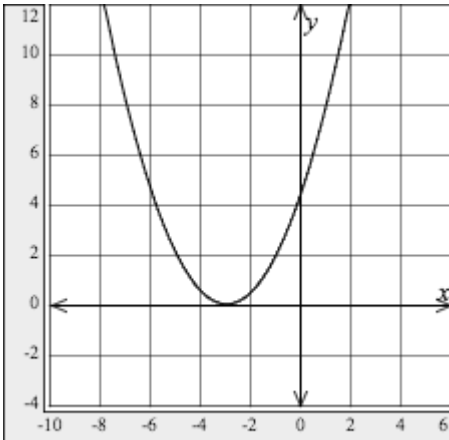
A.



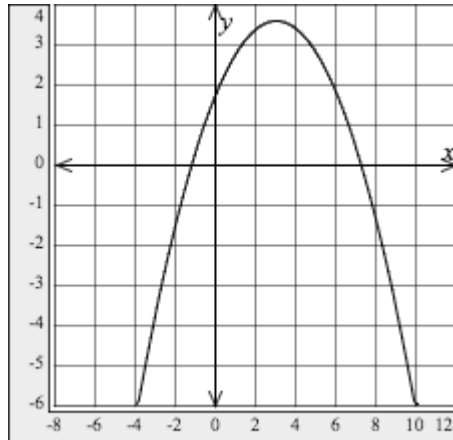
B.



C.



D.



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Question 2.

Describe how to transform the graph of $f(x) = x^2$ to obtain the graph of the related function $g(x)$. Then select the graph of $g(x)$.

$g(x) = f(3x) + 4$

The graph of $g(x) = f(3x) + 4$ is a (select) of the graph of $f(x)$ by a factor of , and a translation of 4 units (select).

Select the correct graph of $g(x)$.

