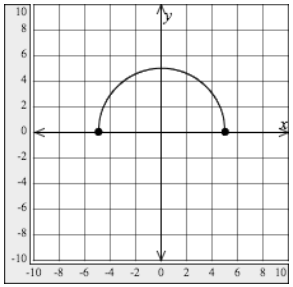
Alg 2 1.4 Homework

Question 1.

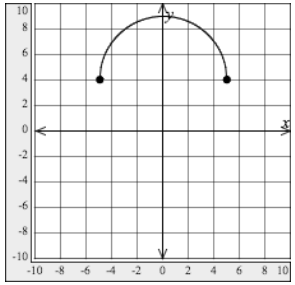
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Translate the graph of $f(x)$ to the left 4 units.

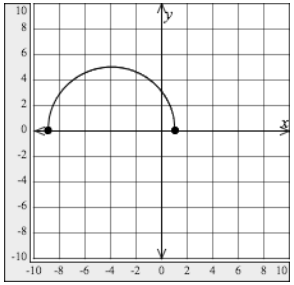


Select the graph that illustrates the above transformation.

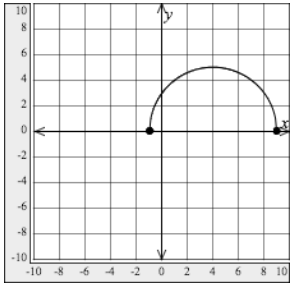
A.



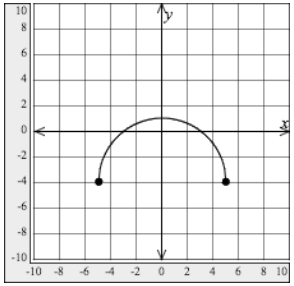
B.



C.



D.



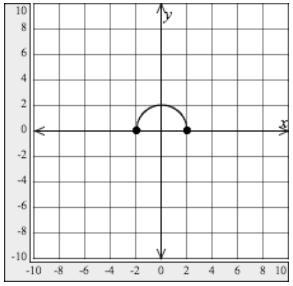
The function that describes this transformation is $g(x) =$ ☐ .

Alg 2 1.4 Homework

Question 2.

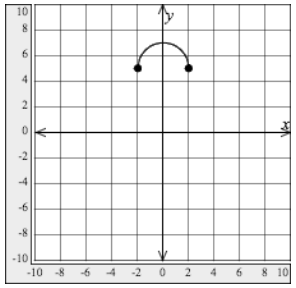
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Translate the graph of $f(x)$ up 5 units.

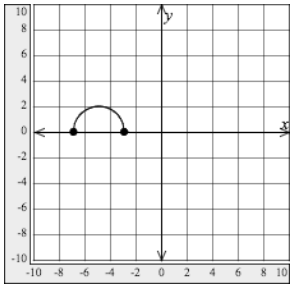


Select the graph that illustrates the above transformation.

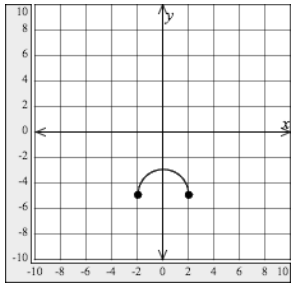
A.



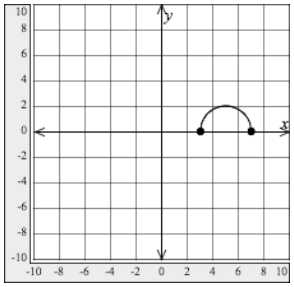
B.



C.



D.



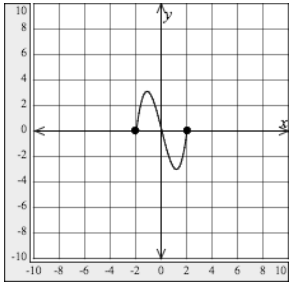
The function that describes this transformation is $g(x) =$ ☐ .

Alg 2 1.4 Homework

Question 3.

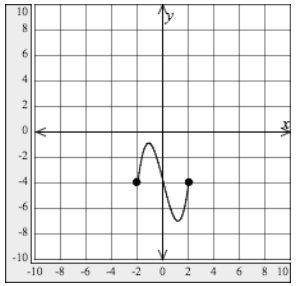
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Translate the graph of $f(x)$ to the right 4 unit(s).

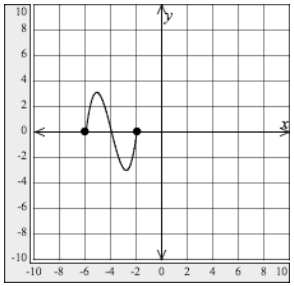


Select the graph that illustrates the above transformation.

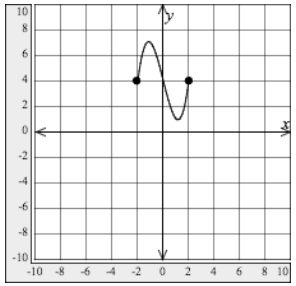
A.



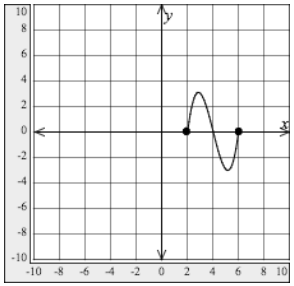
B.



C.



D.



The function that describes this transformation is $g(x) =$ ☐ .

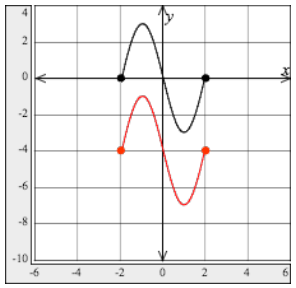
Alg 2 1.4 Homework

Question 4.

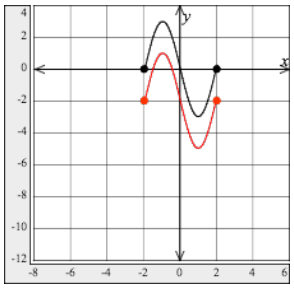
Enter $g(x)$ in terms of $f(x)$ after selecting the correct graph with the given transformation of the graph of $f(x)$.

Translate the graph of $f(x)$ down 3 units.

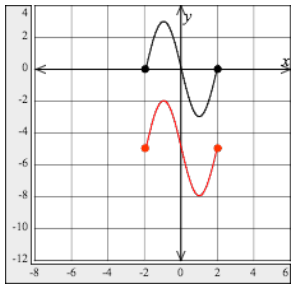
A.



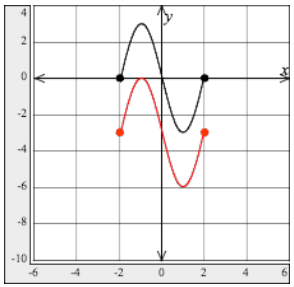
B.



C.



D.



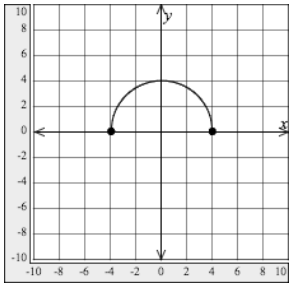
$g(x) =$ ☐

Alg 2 1.4 Homework

Question 5.

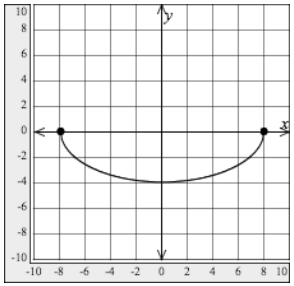
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Stretch the graph of $f(x)$ horizontally by a factor of 2.

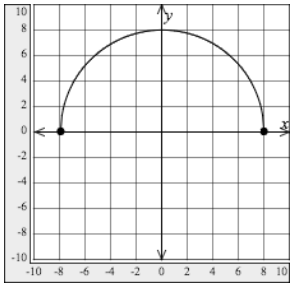


Select the graph that illustrates the above transformation.

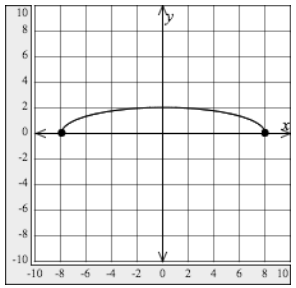
A.



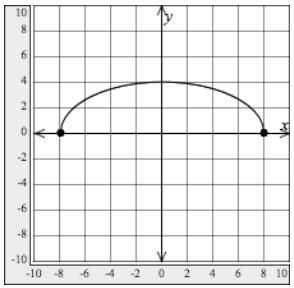
B.



C.



D.



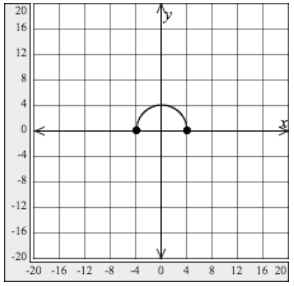
The function that describes this transformation is $g(x) =$ ☐ .

Alg 2 1.4 Homework

Question 6.

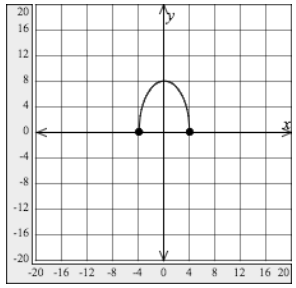
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Stretch the graph of $f(x)$ vertically by a factor of 2.

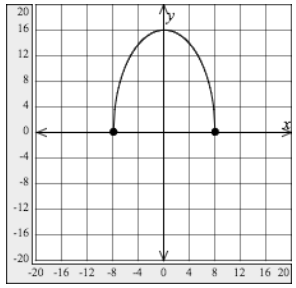


Select the graph that illustrates the above transformation.

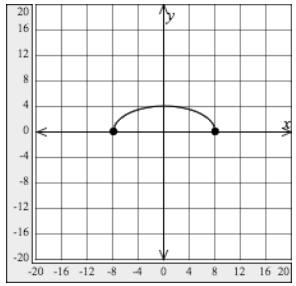
A.



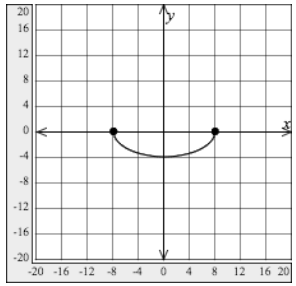
B.



C.



D.

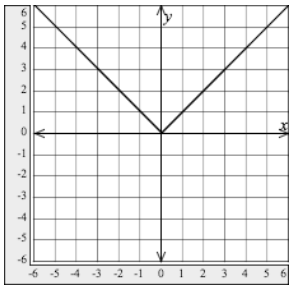


The function that describes this transformation is $g(x) =$ ☐ .

Question 7.

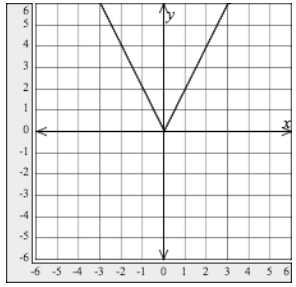
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Compress the graph of $f(x)$ horizontally by a factor of $\frac{1}{2}$.

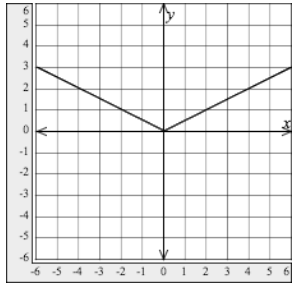


Select the graph that illustrates the above transformation.

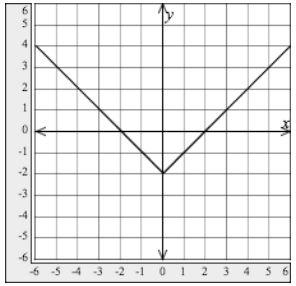
A.



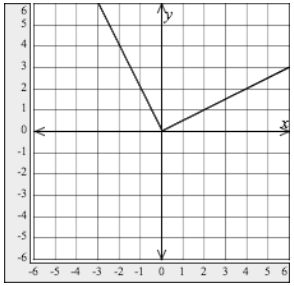
B.



C.



D.



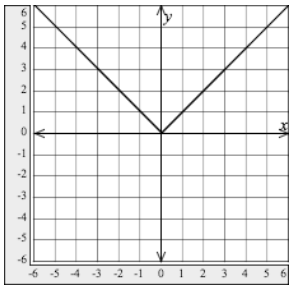
The function that describes this transformation is $g(x) =$ ☐ .

Alg 2 1.4 Homework

Question 8.

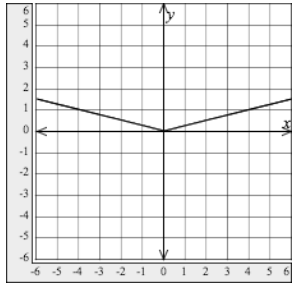
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Compress the graph of $f(x)$ vertically by a factor of $\frac{1}{4}$.

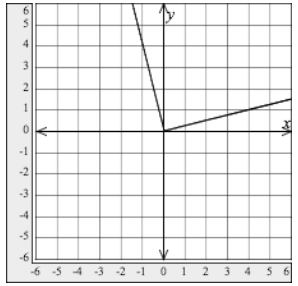


Select the graph that illustrates the above transformation.

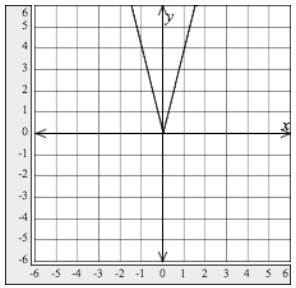
A.



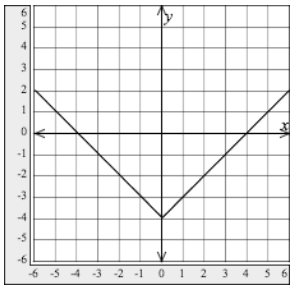
B.



C.



D.



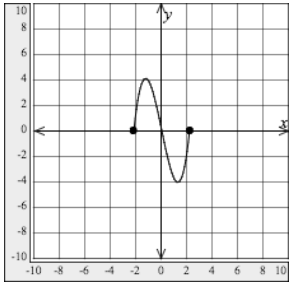
The function that describes this transformation is $g(x) =$ ☐ .

Alg 2 1.4 Homework

Question 9.

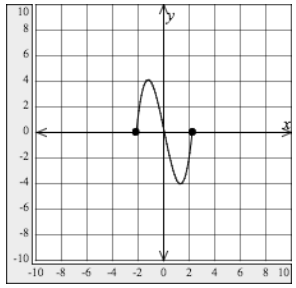
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Reflect the graph of $f(x)$ across the y-axis.

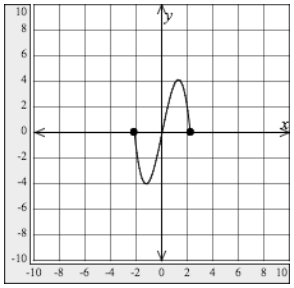


Select the graph that illustrates the above transformation.

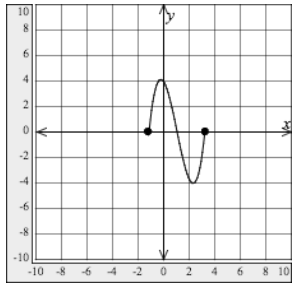
A.



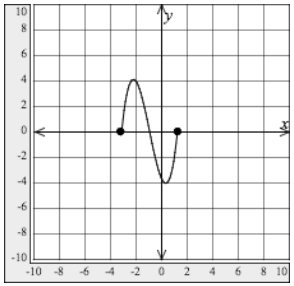
B.



C.



D.

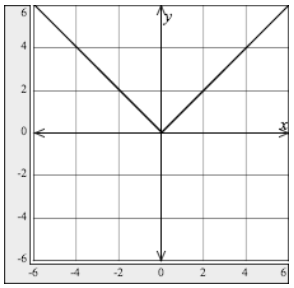


The function that describes this transformation is $g(x) =$ ☐ .

Question 10.

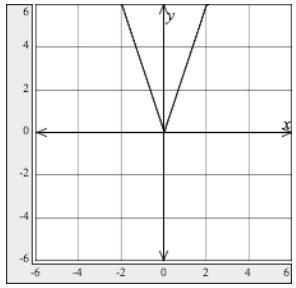
Enter $g(x)$ in terms of $f(x)$ after performing the given transformation of the graph of $f(x)$.

Reflect the graph of $f(x)$ across the x-axis.

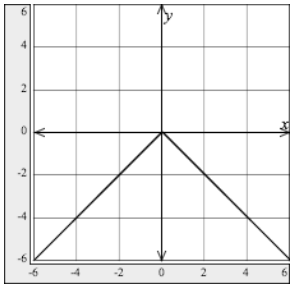


Select the graph that illustrates the above transformation.

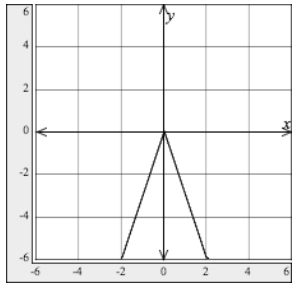
A.



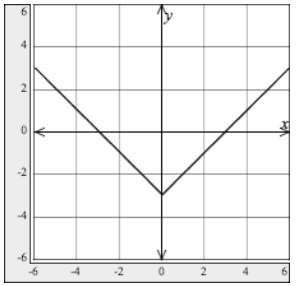
B.



C.



D.



The function that describes this transformation is $g(x) =$ ☐ .