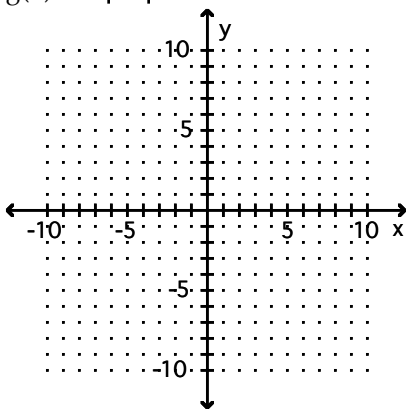
Absolute Value Functions

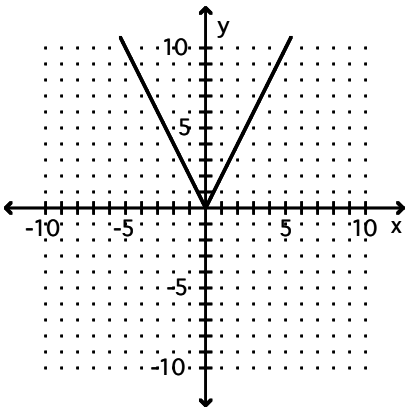
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Graph the function by starting with a function from the library of functions and then using the techniques of shifting, compressing, stretching, and/or reflecting.

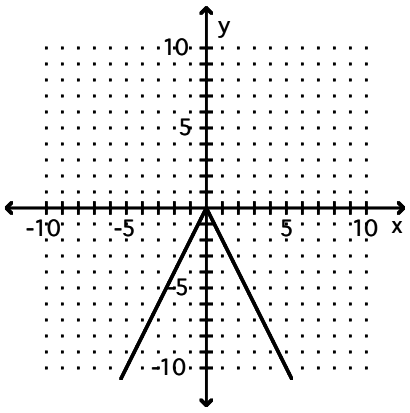
1) $g(x) = -2|x|$ 1) _____



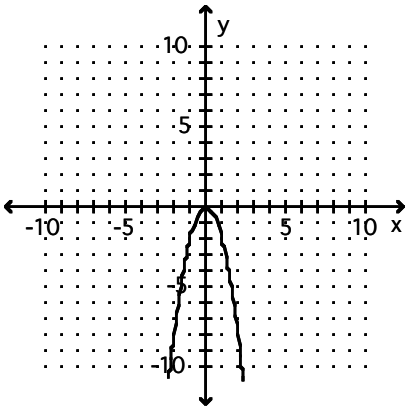
A)



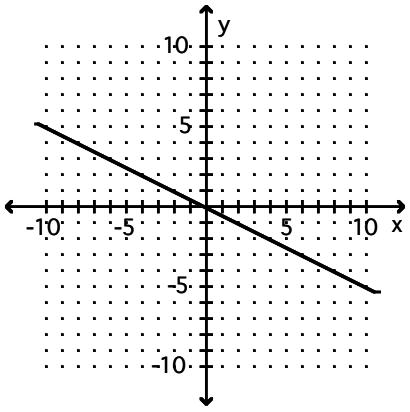
B)



C)

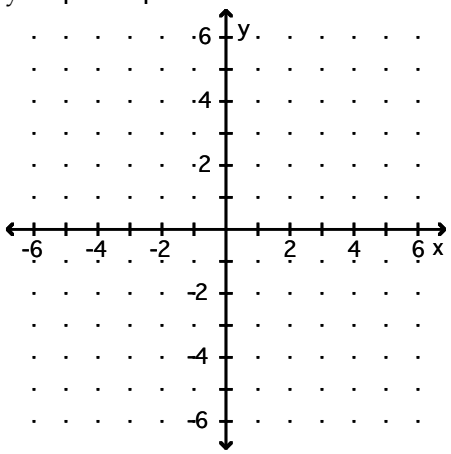


D)

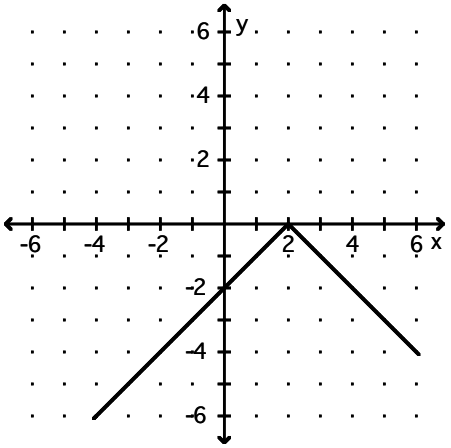


Graph.

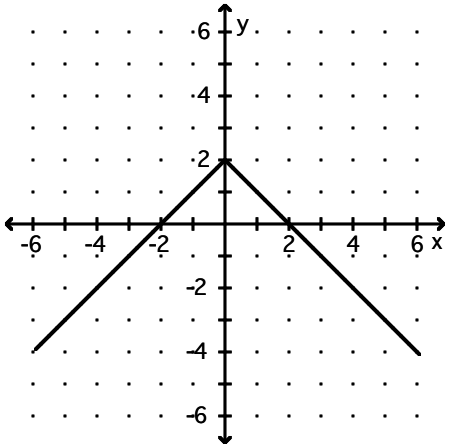
2) $y = -|x + 2|$ 2) _____



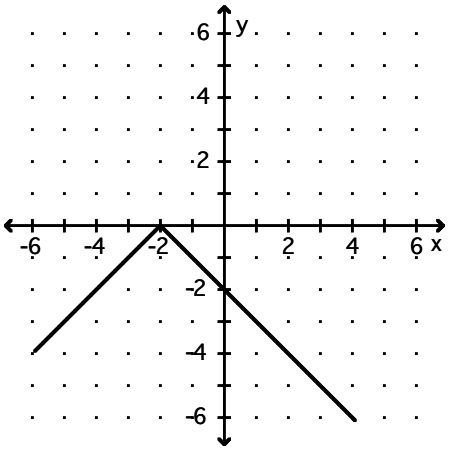
A)



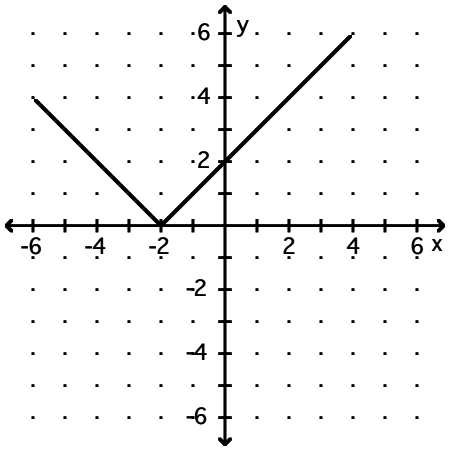
B)



C)

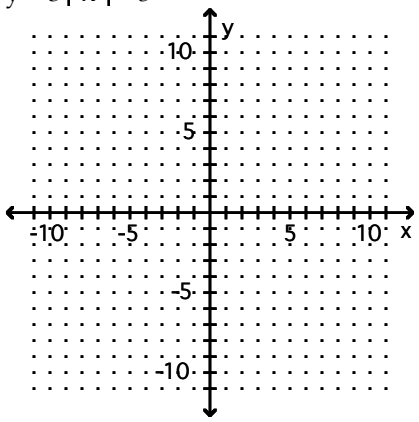


D)

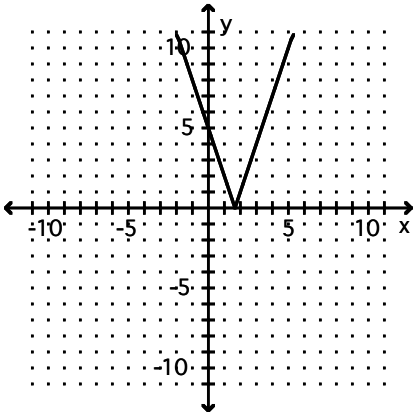


Graph the function.

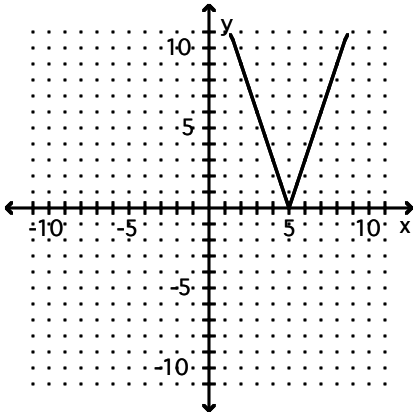
3) $y = 3|x| - 5$ 3) _____


y
10
5
-10
-5
5
10
x
-5
-10

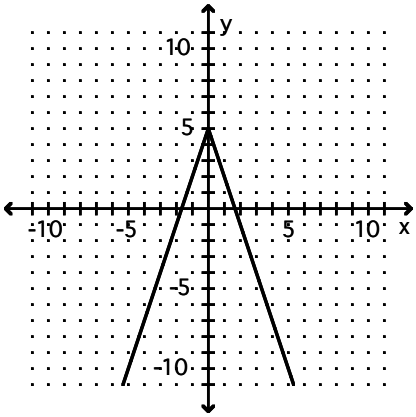
A)


y
10
5
-10
-5
5
10
x
-5
-10

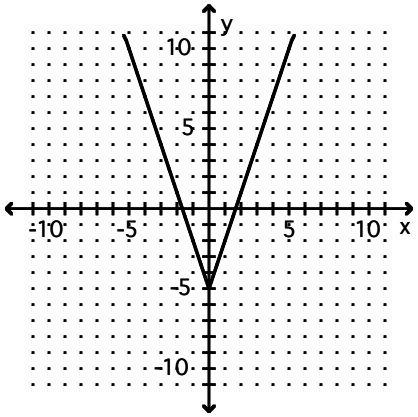
B)


y
10
5
-10
-5
5
10
x
-5
-10

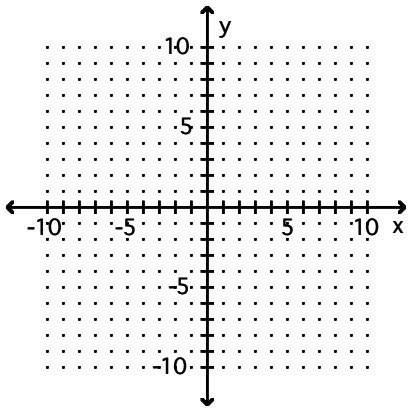
C)


y
10
5
-10
-5
5
10
x
-5
-10

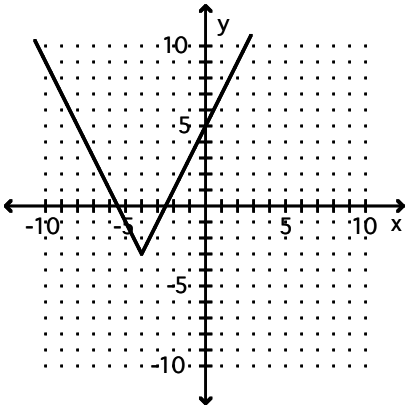
D)


y
10
5
-10
-5
5
10
x
-5
-10

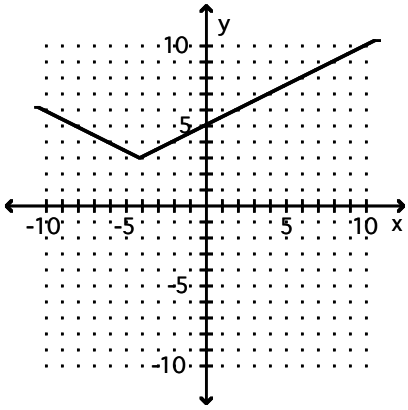
4) $g(x) = \frac{1}{2}|x + 4| - 3$ 4) _____



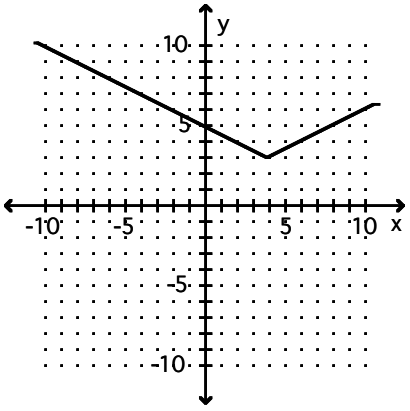
A)



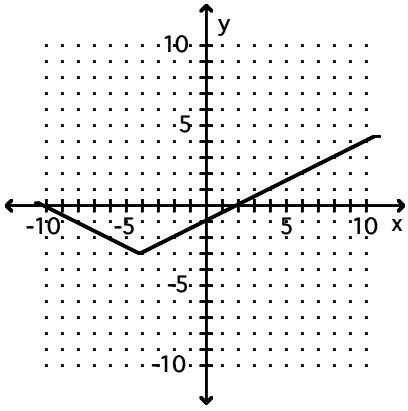
B)



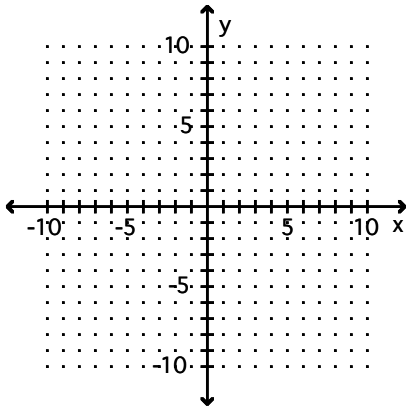
C)



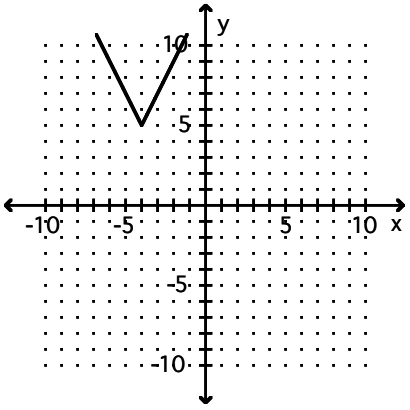
D)



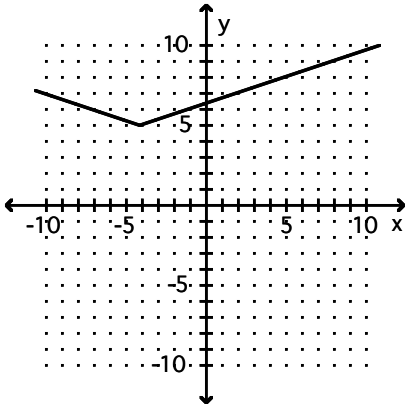
5) $g(x) = \frac{1}{3}|x+4|+5$ 5) _____



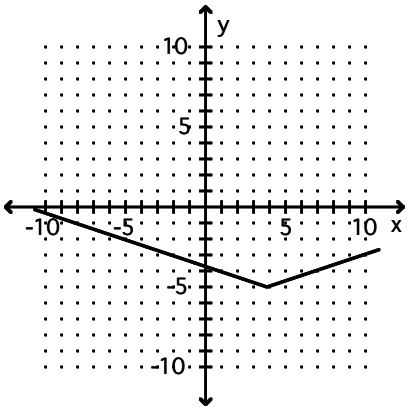
A)



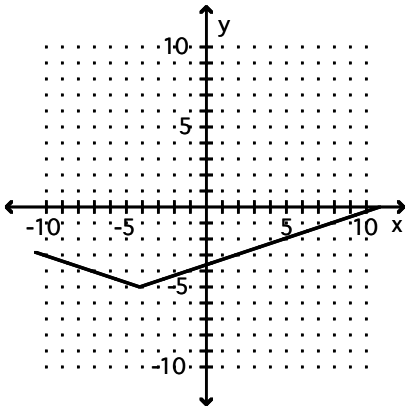
B)



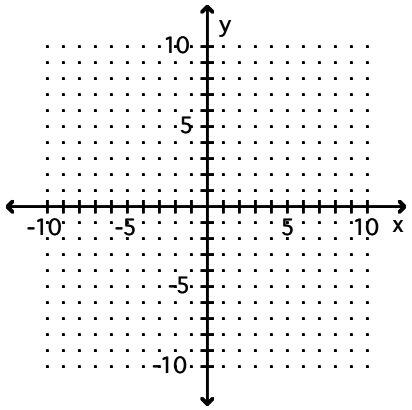
C)



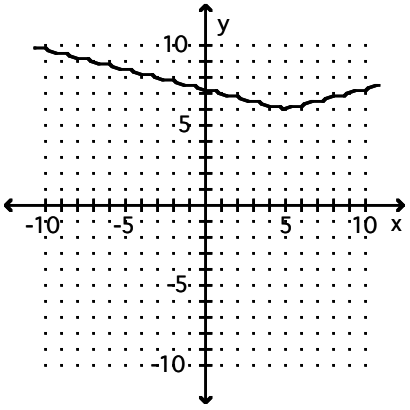
D)



6) $g(x) = \frac{1}{4}|x - 5| - 6$ 6) _____



A)



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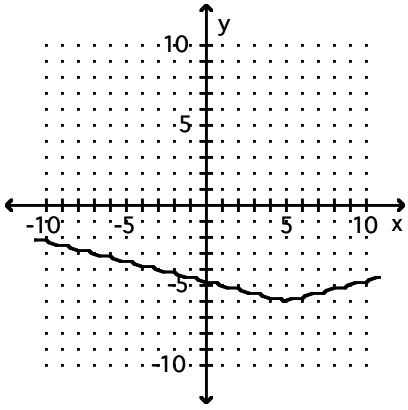
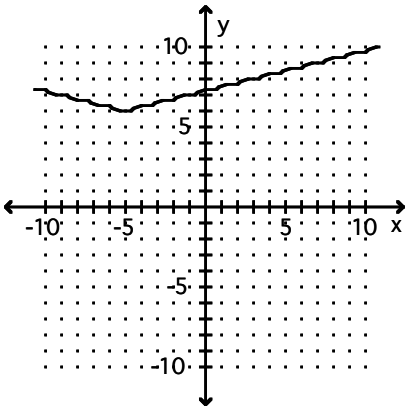
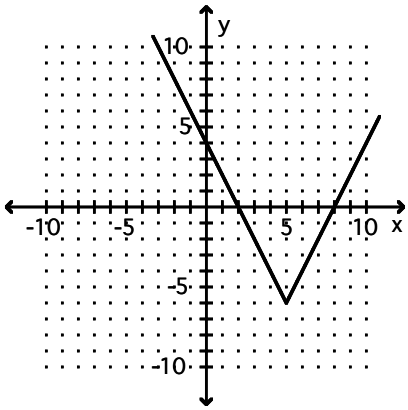


C)



D)



Answer Key
Testname: ABSOLUTE VALUE FUNCTIONS

1) B
2) C
3) D
4) D
5) B
6) B