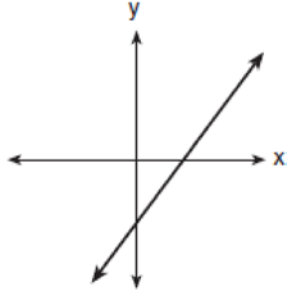
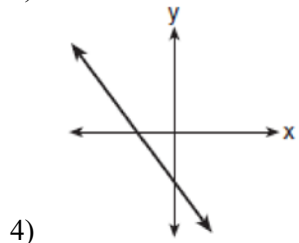
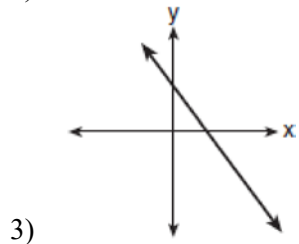
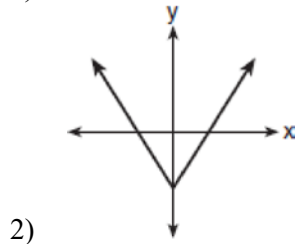
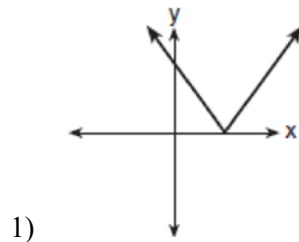


F.IF.C.7: Graphing Absolute Value Functions

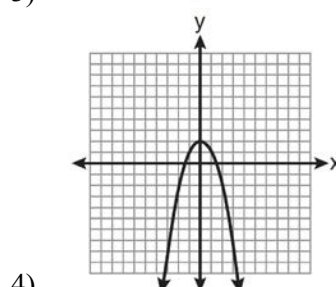
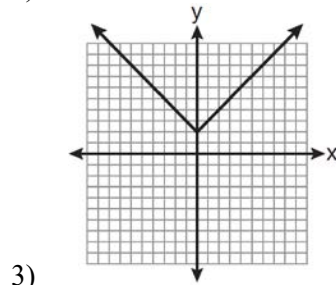
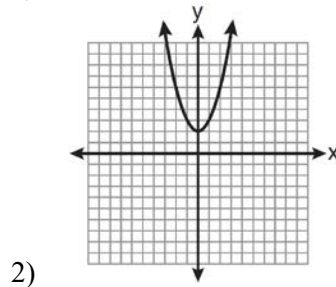
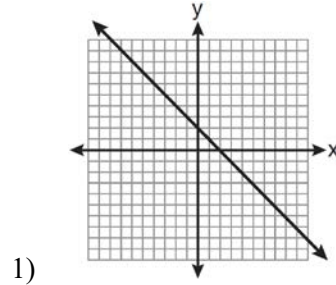
1 The graph below represents $f(x)$.



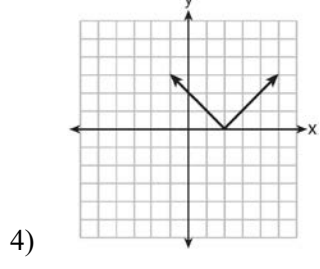
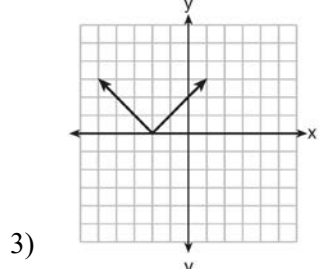
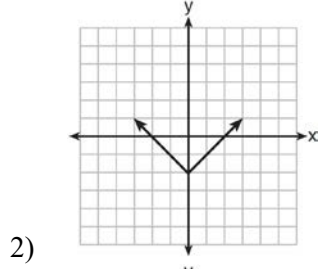
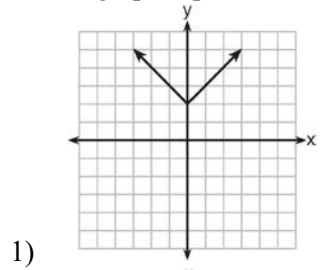
Which graph best represents $|f(x)|$?



2 Which is the graph of $y = |x| + 2$?



3 Which graph represents the equation $y = |x - 2|$?

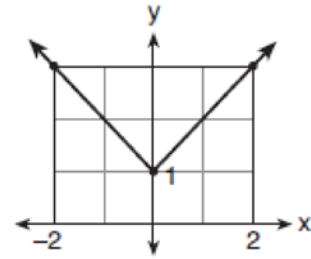


4 What is the *minimum* value of the function

$y = |x + 3| - 2$?

- 1) -2
- 2) 2
- 3) 3
- 4) -3

5 Which equation represents the function shown in the accompanying graph?



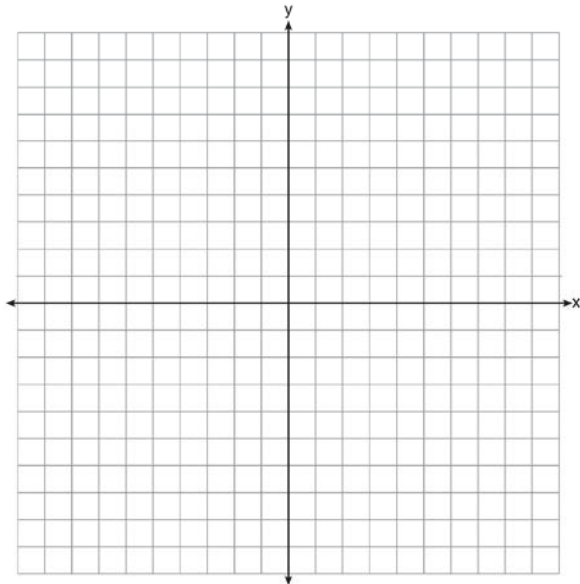
- 1) $f(x) = |x| + 1$
- 2) $f(x) = |x| - 1$
- 3) $f(x) = |x + 1|$
- 4) $f(x) = |x - 1|$

6 The table of values below can be modeled by which equation?

x	y
-2	5
-1	4
0	3
1	4
2	5

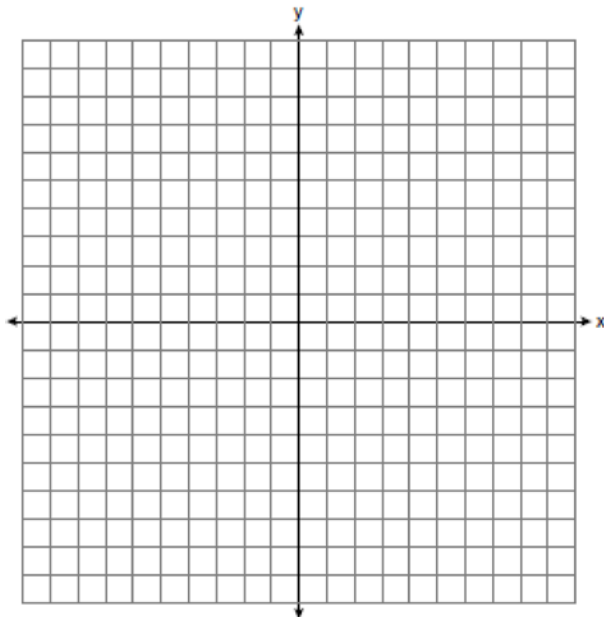
- 1) $f(x) = |x + 3|$
- 2) $f(x) = |x| + 3$
- 3) $f(y) = |y + 3|$
- 4) $f(y) = |y| + 3$

- 7 On the set of axes below, graph the function $y = |x + 1|$.



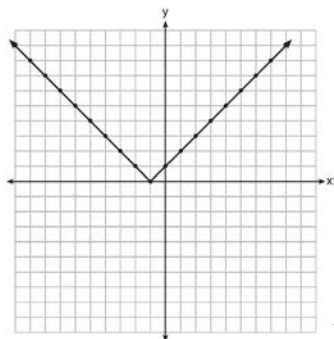
State the range of the function. State the domain over which the function is increasing.

- 8 On the set of axes below, graph $y = 2|x + 3|$. Include the interval $-7 \leq x \leq 1$.



**F.IF.C.7: Graphing Absolute Value Functions
Answer Section**

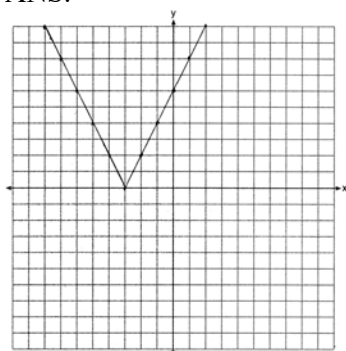
- 1 ANS: 1 REF: 010414b
2 ANS: 3 REF: 011117ia
3 ANS: 4 REF: 081425ia
4 ANS: 1 REF: 011712ai
5 ANS: 1 REF: 080707b
6 ANS: 2 REF: 011502a2
7 ANS:



Range: $y \geq 0$. The function is increasing for $x > -1$.

REF: fall1310ai

- 8 ANS:



REF: 011333ia