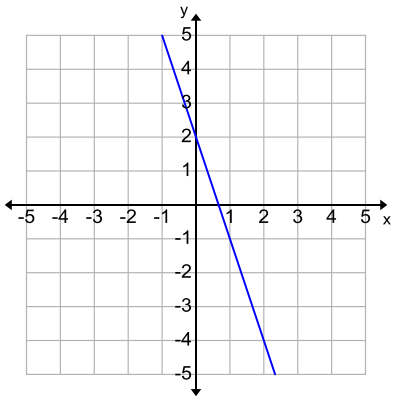
ALGEBRA I
2014–2015 SEMESTER EXAMS
ADDENDUM TO PRACTICE MATERIALS
SEMESTER 1

CCSD CLARK COUNTY SCHOOL DISTRICT

The following items have been provided for additional practice addressing learning targets 5.2, 5.3, and 5.4. Please use them to help prepare your students for the Semester 1 Exam.

1. (5.2)Given the graph of *f*, choose the correct table of values for the inverse of *f*.



(A)

x	2	−1
$f^{-1}(x)$	0	1

(B)

x	0	1
$f^{-1}(x)$	2	0.3333

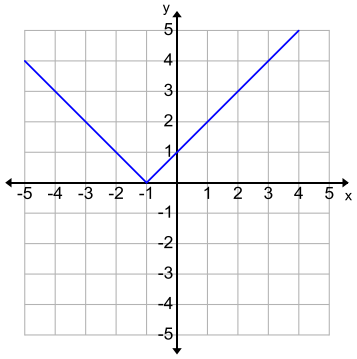
(C)

x	0	1
$f^{-1}(x)$	2	−1

(D)

x	−3	−1
$f^{-1}(x)$	0	1

2. (5.3)Which function matches the graph below?

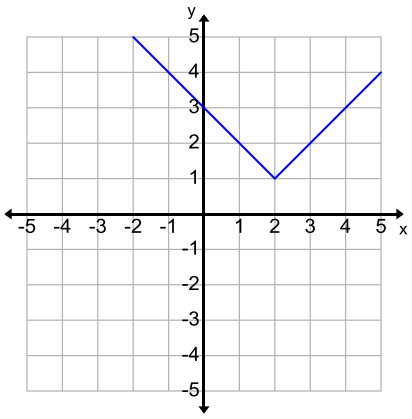


(A) $h(x)=|x+1|$

(B) $h(x)=|x-1|$

(C) $h(x)=|x|-1$

3. (5.3)What is the domain and range of the graph shown below?



(A) Domain: All real numbers

Range: $x \geq 1$

(B) Domain: $x \geq 1$

Range: All real numbers

(C) Domain: All real numbers

Range: $y \geq 1$

4. (5.4)To evaluate $f(3) - f(1)$, complete the following table for given the function:

$$f(x) = \begin{cases} 2x-1, & x<2 \\ x+4, & x \geq 2 \end{cases}$$

Which half of the formula for $f(x)$ do you use for evaluating at $x=3$?	
Fill in the blank: $f(3) = \_\_\_\_ + 4$	
Fill in the blank: $f(3) = \_\_\_\_$	
Which half of the formula for $f(x)$ do you use for evaluating at $x=1$?	
Fill in the blank: $f(1) = 2(\_\_\_) - 1$	
Fill in the blank: $f(1) = \_\_\_\_$	
Then $f(3) - f(1) = \_\_\_\_$	