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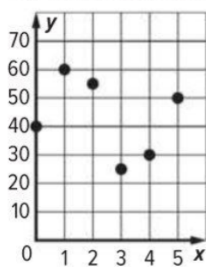
**CW # 1-3:** Algebra 1 - Chapter 3: Relations and Functions

30 points

1. **MULTI-SELECT** The table and graph show the number of pounds of bananas sold at a local grocery store from 2013 to 2018.

x	y
0	40
1	60
2	55
3	25
4	30
5	50

**Number of Pounds of Bananas Sold**



Which of the following statements correctly describes the relation? **Select all that apply.**

- (A) The x-axis has a scale mark of 1 mark = 1 pound of bananas.
- (B) The x-axis has a scale mark of 1 mark = 1 year.
- (C) The x-axis represents the years since 2013.
- (D) The x-axis represents the number of pounds of bananas sold.
- (E) The y-axis represents the years since 2013.
- (F) The y-axis represents the number of pounds of bananas sold.
- (G) The y-axis has a scale mark of 1 mark = 10 years.

2. **MULTIPLE CHOICE** The Hillsborough State Park in Thonotosassa, Florida, charges an admission fee of \$4 plus a camping fee of \$20 per night. This can be represented by the function  $f(x) = 20x + 4$ , where  $f(x)$  is the total cost and  $x$  is the number of nights spent camping. What is the value of  $f(5)$ , which is the cost of 5 nights camping?

- (A) 80
- (B) 100
- (C) 104
- (D) 120

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**3. MULTIPLE CHOICE** If  $f(x) = -9x + 8$ , then find  $f(-2)$ .

- (A) -84
- (B) -8
- (C) 26
- (D) 100

**4. MULTIPLE CHOICE** Which function includes the data set below?

$\{(2, -2), (6, 10), (13, 31)\}$

- (A)  $f(x) = \frac{1}{2}x - 3$
- (B)  $f(x) = -2x + 2$
- (C)  $f(x) = 3x - 8$
- (D)  $f(x) = 4x - 10$

**5. OPEN RESPONSE** Determine whether the relation shown in the table is a function. Explain.

<b>Domain</b>	-4	2	-4	5
<b>Range</b>	8	11	13	13

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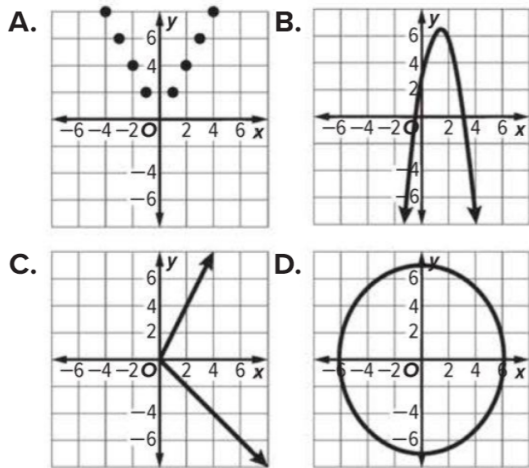
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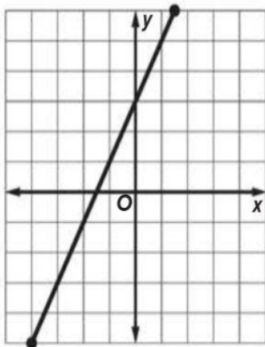
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**6. TABLE ITEM** Indicate whether each of the following relations are functions.



RELATION	FUNCTION?	
	YES	NO
A.		
B.		
C.		
D.		

**7. MULTIPLE CHOICE** What is the domain of this function? (Lesson 3-3)



- (A)  $-4 < x < 1.5$
- (B)  $-4 \leq x \leq 1.5$
- (C)  $-6 < y < 6$
- (D)  $-6 \leq y \leq 6$

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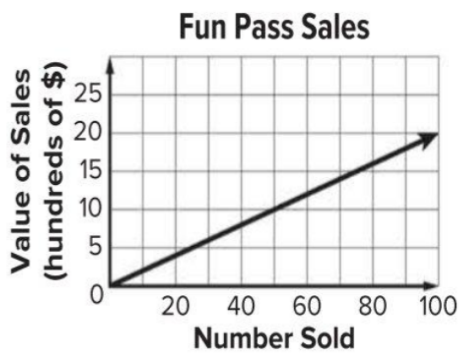
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- 8. OPEN RESPONSE** The graph shows the relationship between the number of Fun Pass tickets sold and the total value of the sales. Use the graph to estimate the  $x$ - and  $y$ -intercepts of the function, where the function is positive and negative, and interpret the meanings in the context of the situation. (Lesson 3-4)



- 9. OPEN RESPONSE** What are the intercepts for the equation  $y = -x - 1$  graphed below? (Lesson 3-4)

