Algebra 1 ECA Remediation   **Name** _____

Quiz 7.3

What is the domain and range of the relation shown in the table provided? Determine if the relation is a function.

x	y
7	-5
9	-5
5	3
0	7

1. Domain:
   A. {7,-5, 9}
   B. {-5, 3, 7}
   C. {0, 5, 7, 9}
   D. {0, 3, 5, 7}

2. Range:
   A. {7,-5, 9}
   B. {-5, 3, 7}
   C. {0, 5, 7, 9}
   D. {0, 3, 5, 7}

3. Function?
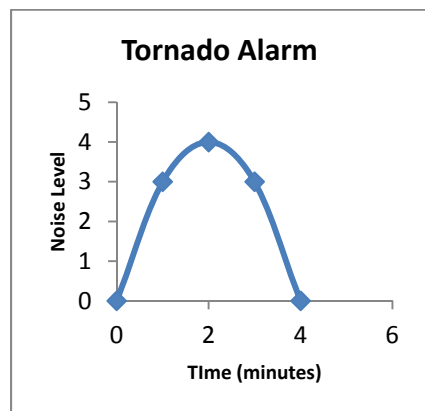   A. Function
   B. Not a Function

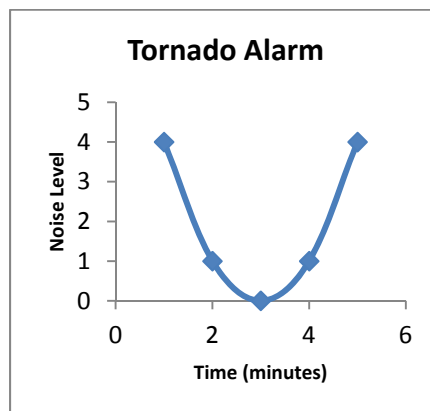**Determine which set of ordered pairs represent a function.**

4. A. {(2, 5), (7, 9), (3, 4), (1, -4)}
   B. {(3, -5), (5, 7), (9, -5), (5, -5)}
   C. {(2, -1), (8, -2), (4, -11), (4, -10)}
   D. {(4, -9), (3, -2), (4, 5), (7, 12)}

5. The tornado drill sounds in the school building. The alarm noise is at a constant noise level for the entire drill. Which graph best represents the level of noise during the drill?
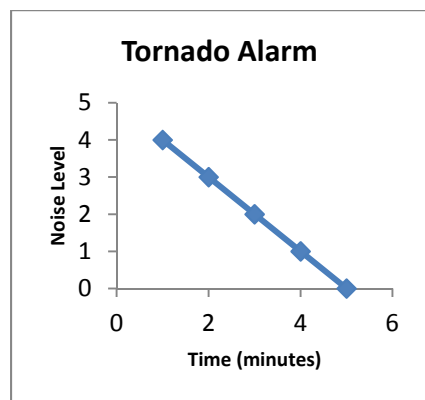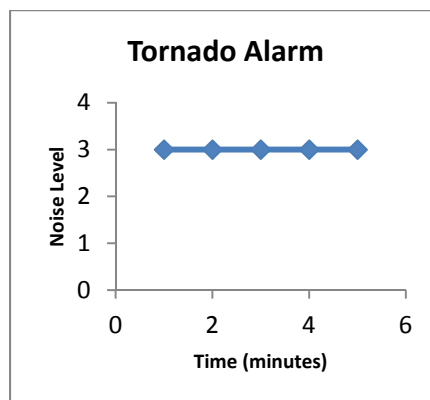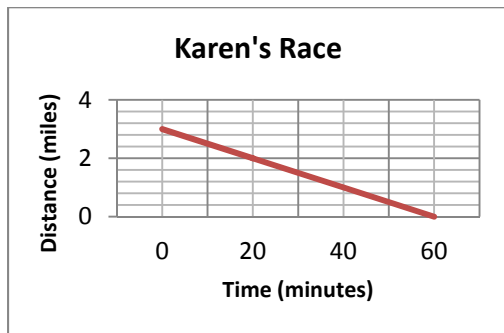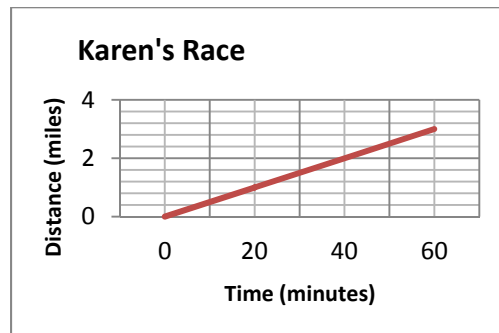
A.

B.

C.

D.

6. Karen ran a 4 mile race. During the first half of the race Karen ran at a constant pace. Once she made it to the half way mark, she turned around and ran the second half of the race back to the finish line at a much faster pace. Assume the 4 mile race is run on a course that is a straight 2 mile road. Which graph best represents Karen's distance from the Start/Finish line over time?
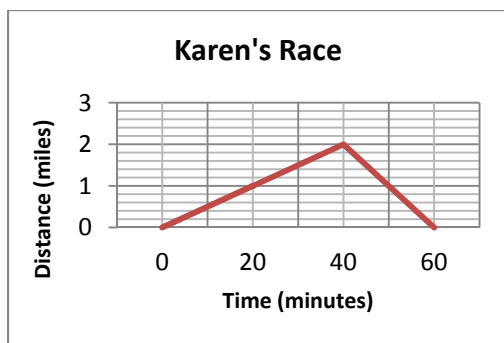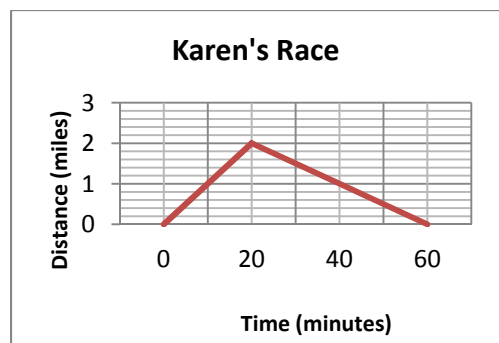
A.

Karen's Race

Distance (miles) vs Time (minutes)

B.

Karen's Race

Distance (miles) vs Time (minutes)

C.

Karen's Race

Distance (miles) vs Time (minutes)

D.

Karen's Race

Distance (miles) vs Time (minutes)

In each of the following problems, a linear equation has been solved incorrectly. You need to determine where the mistake was made and then solve the equation for the correct answer.

7. $6x - 17 = 5(2x - 11) - 2x$

$6x - 17 = 10x - 55 - 2x$

$6x - 17 = 8x - 55$

$-17 = 2x - 55$

$-72 = 2x$

$-36 = x$

A. Distributed the 5 incorrectly, -3

B. Combined like terms incorrectly, $19/3$

C. Subtracted x from both sides incorrectly, $-19/7$

D. Subtracted 55 from both sides incorrectly, 19

8. $4 - 5x = 3(x - 12) - 7x$

$4 - 5x = 3x - 36 - 7x$

$4 - 5x = 10x - 36$

$4 = 15x - 36$

$40 = 15x$

$8/3 = x$

A. Distributed the 3 incorrectly, $9/8$

B. Combined like terms incorrectly, 40

C. Added x to both sides incorrectly, 8

D. Divided by 15 incorrectly, 600