Algebra 1 ECA Remediation Name_____

Quiz 22.3

Simplify each expression.

1) $(-4k^3 + 8k + 6k^2) - (-7k + 4k^2 + 3k^3)$

A) $-7k^3 + 2k^2 + 15k$
B) $-7k^3 + 2k^2 + 10k$
C) $-k^3 + 2k^2 + 10k$
D) $-k^3 + 2k^2 + 7k$

2) $(-7a - 5a^4 - 4a^2) - (-2a + 3 + 8a^2)$

A) $-2a^4 - 18a^2 - 5a - 3$
B) $-5a^4 - 12a^2 - 5a - 3$
C) $-2a^4 - 18a^2 - 3$
D) $-5a^4 - 18a^2 - 5a - 3$

3) $(2 - 6p^4 - 2p^2) + (-4p + 5p^4 - 2)$

A) $6p^4 - 2p^2 - 9p$
B) $6p^4 - 2p^2 - 14p$
C) $-p^4 - 2p^2 - 9p$
D) $-p^4 - 2p^2 - 4p$

4) $(-2x^4 - 7x^3 - 1) + (8x^3 + 3x^4 + 3)$

A) $4x^4 + 4x^3 + 2$
B) $4x^4 - x^3 + 2$
C) $x^4 + x^3 + 2$
D) $x^4 - x^3 + 2$

What is the domain and range of the relation shown in the table provided?

5.

X	y
4	3
6	5
2	7
8	9

A. Domain: {-4, -2, 4, 5} Range: {-4, -2, 4, 5}
B. Domain: {4, 6, 2, 8} Range: {3, 5, 7, 9}
C. Domain: {-4, -2, 4, 5} Range: {-7, -4, 2}
D. Domain: {3, 5, 7, 9} Range: {4, 6, 2, 8}

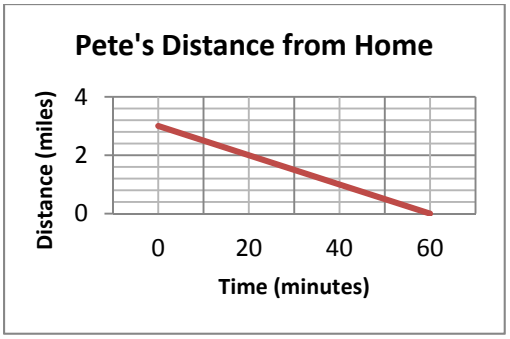
Determine which set of ordered pairs represent a function.

6. {(2, 5), (2, 6), (3, 7), (6, 5)}

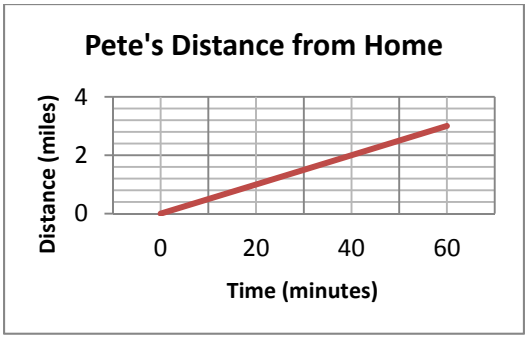
A. Function
B. Not a Function

7. Pete rode his bike from home to school at a constant speed. Pete then turned around and returned home at a constant but faster pace. Assume that Pete travels along a straight line. Which graph best represents Pete's distance from his home over time?

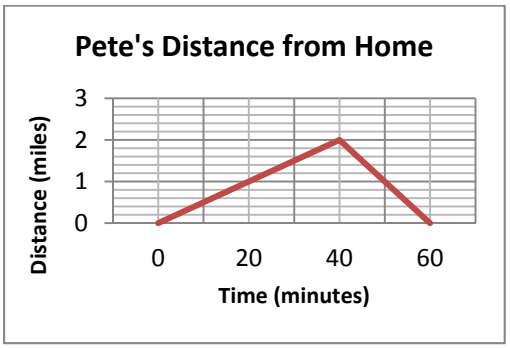
A.



B.



C.



D.