

Quiz 22.2

Simplify each expression.

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

A) $14p^3 - 5p^2 - 1$

B) $14p^3 - 13p^2 - 1$

C) $10p^3 - 8p^2 - 1$

D) $10p^3 - 13p^2 - 1$

2) $(6m^2 - 5m - 6m^4) - (-5m^4 + 2m^2 + 5m)$

A) $-m^4 + 4m^2 - 10m$

B) $-3m^4 + 4m^2 - 10m$

C) $-3m^4 + 3m^2 - 3m$

D) $-3m^4 + 4m^2 - 3m$

3) $(-7n^4 - 1 + 5n) + (5n + 6 + n^2)$

A) $-7n^4 - n^2 - 15 + n$

B) $-7n^4 - n^2 - 7 + n$

C) $-7n^4 - n^2 - 11 + n$

D) $-7n^4 + n^2 + 10n + 5$

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

A) $-5x^4 + 12x^2 + 4x$

B) $-5x^4 + 11x^2 + 6x$

C) $-5x^4 + 11x^2 + 10x$

D) $-5x^4 + 12x^2 + 10x$

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

5.

X	y
3	2
5	4
7	6
9	8

- 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: $\{4, 6, 2, 8\}$

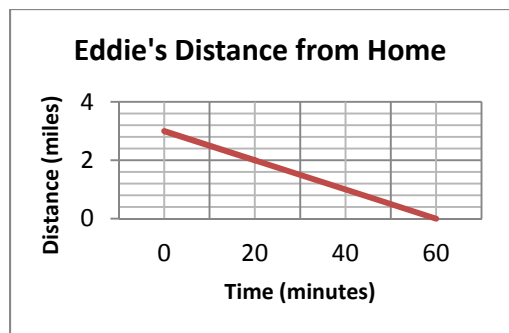
Determine which set of ordered pairs represent a function.

6. $\{(2, 4), (3, 4), (1, 7), (6, 1)\}$

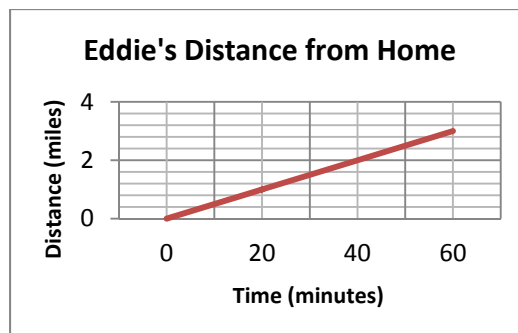
- A. Function
- B. Not a Function

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

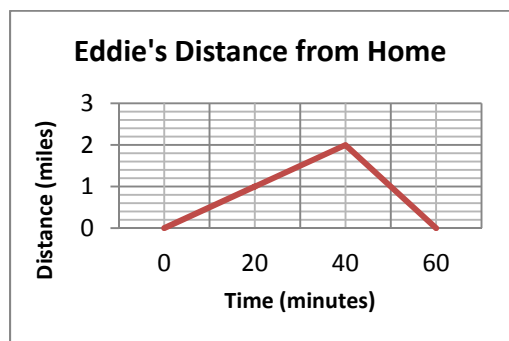
A.



B.



C.



D.

