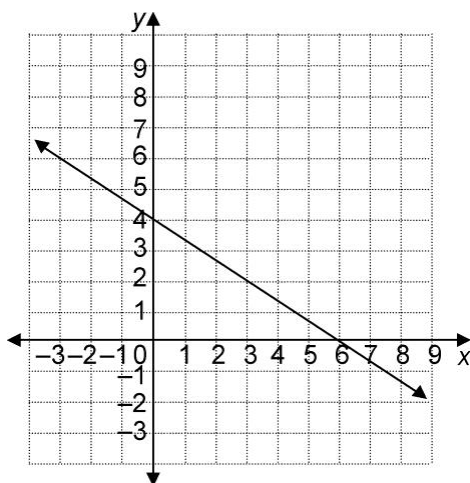
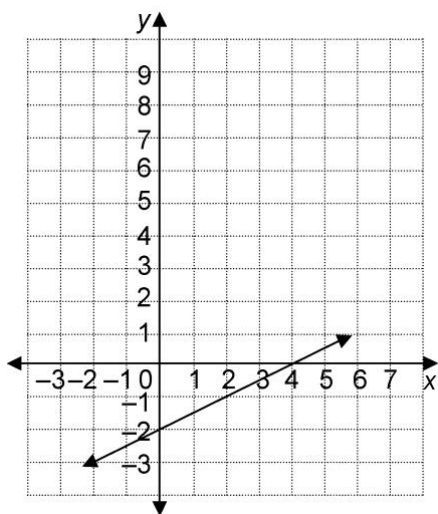


Practice: Connecting Variation, Slope, and First Differences

1. Look at this graph of a relation.



- Calculate the slope.
 - Determine the vertical intercept.
 - Write an equation for the relation of the form $y = mx + b$.
2. Look at this graph of a relation.



- Calculate the slope.
 - Determine the vertical intercept.
 - Write an equation for the relation.
3. A relation is represented by the equation $y = 3x - 5$.
- Is this relation a direct variation or a partial variation?

- Identify the initial value of y .
- Identify the constant of variation.
- Make a table of values for x -values from 0 to 4.
- Graph the relation.

4. The table represents a relation.

x	y
0	-1
1	3
2	7
3	11
4	15
5	19

- Use a graph to represent the relation.
 - Use words to represent the relation.
 - Identify the vertical intercept and the slope. Write an equation to represent the relation.
5. A large cheese pizza costs \$8.00, plus \$0.50 for each topping.
- Make a table to represent the relation.
 - Graph the relation.
 - Write an equation to represent the relation.
6. Represent this relation using words, with numbers, and with an equation.

