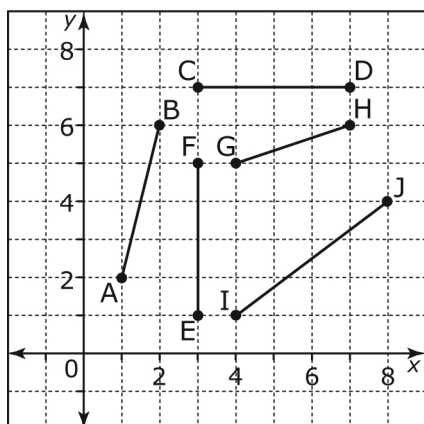
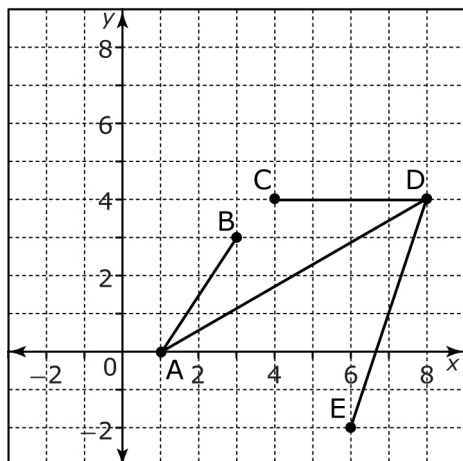


## Section 6.3 Extra Practice

1. **a)** Determine the rise and run of each line segment.
- b)** Determine the slope of each line segment.



2. Determine the slope of each line segment.
  - a)** AB
  - b)** AD
  - c)** CD
  - d)** DE



3. Examine the table of values.

$x$	$y$
0	2
1	5
2	8
3	11
4	14

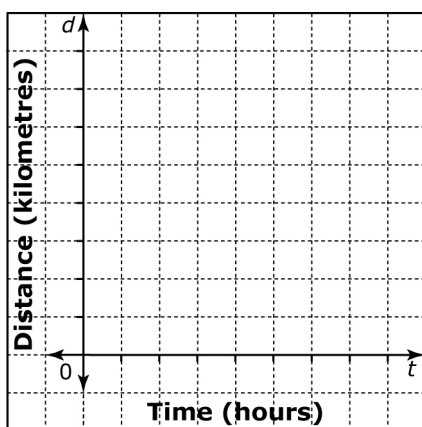
- a)** What is the change in the  $x$ -values from one row to the next?
- b)** What is the change in the  $y$ -values from one row to the next?
- c)** What is the slope of the line that would connect these points on a graph?



4. The average speed of a bus going from Grand Falls Windsor to St. John's is 80 km/h. The table shows the distance travelled during each hour of the ride.

Time (h)	Distance (km)
1	80
2	160
3	240
4	320
5	400

- a) Graph the data. Connect the points with a straight line.



- b) What is the slope of the line?  
c) How is the slope related to the rate of change in distance?

5. Sophie earns \$26 for 2 h of gardening.

- a) Complete the table.

Time Worked (h)	Amount Earned (\$)	Rate of Change
0	0	
1	13	$13 - 0 = 13$
2	26	
3		
4		
5		

- b) What is the rate of change in Sophie's earnings? Explain what this means.  
c) Suppose Sophie gets an increase of \$4 for 2 h. What is her new rate of change in earnings?  
d) Suppose you graphed both of Sophie's earnings on one grid. What would be similar about the graphs? Explain.  
e) Describe any differences between the two graphs.

6. Determine the slope of the line in a graph of the data.

x	y
0	2
3	7
6	12
9	17
12	22



- 7.** Does a graph of the data in each table show a constant slope? Explain.

Table A

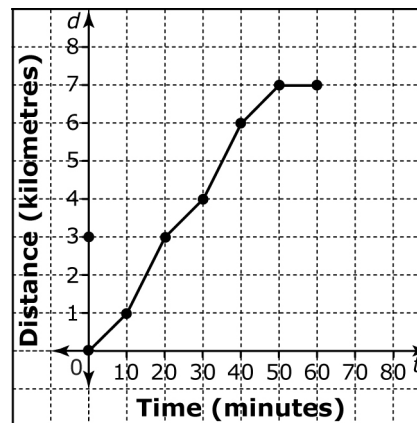
$x$	$y$
0	1
1	3
2	5
3	7
4	9

Table B

$x$	$y$
0	1
1	3
2	6
3	10
4	15

- 8.** Water Street Tea pays \$48 for 4 hours of work and pays \$72 for 6 hours of work. Determine the rate of change in pay. Explain what it means.

- 9.** Paul runs once around Canoe Lake. The results of his run are shown in the graph.



- Identify the intervals on the graph that have constant slope.
- Determine the slope of each of these intervals.
- Explain the slope as a rate of change.

