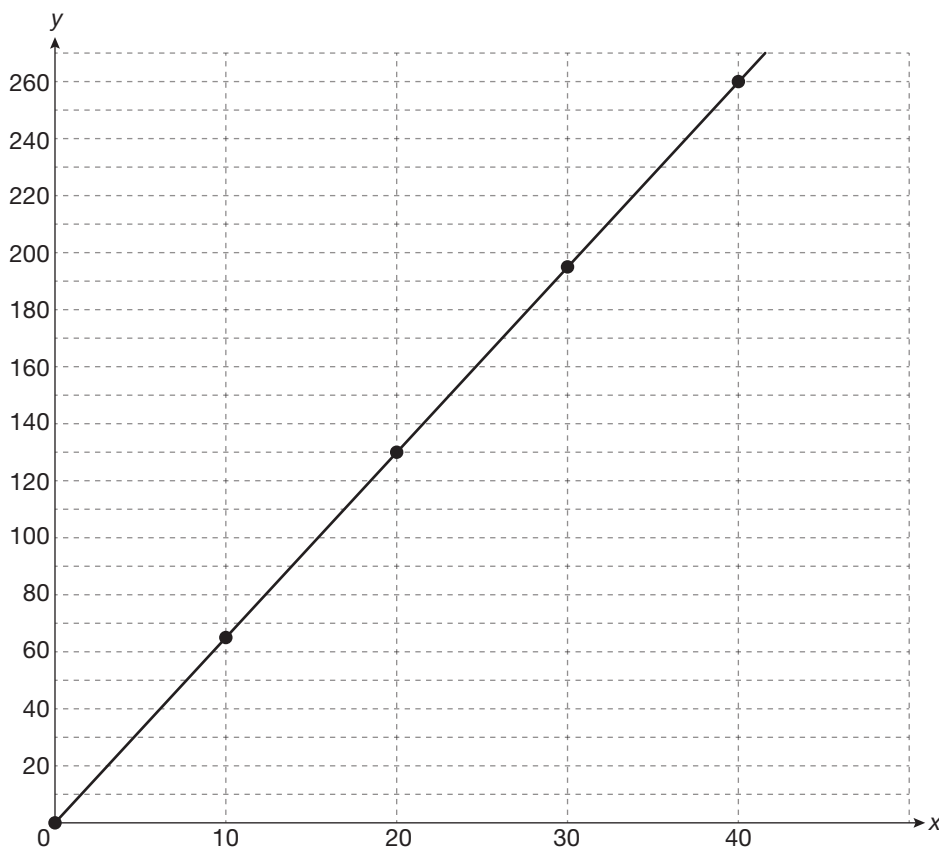# Practice – Part 3

Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers under the Solutions tab in Moodle.

1. Determine the equation for the following graph.

2. Determine the equation for the following graph.
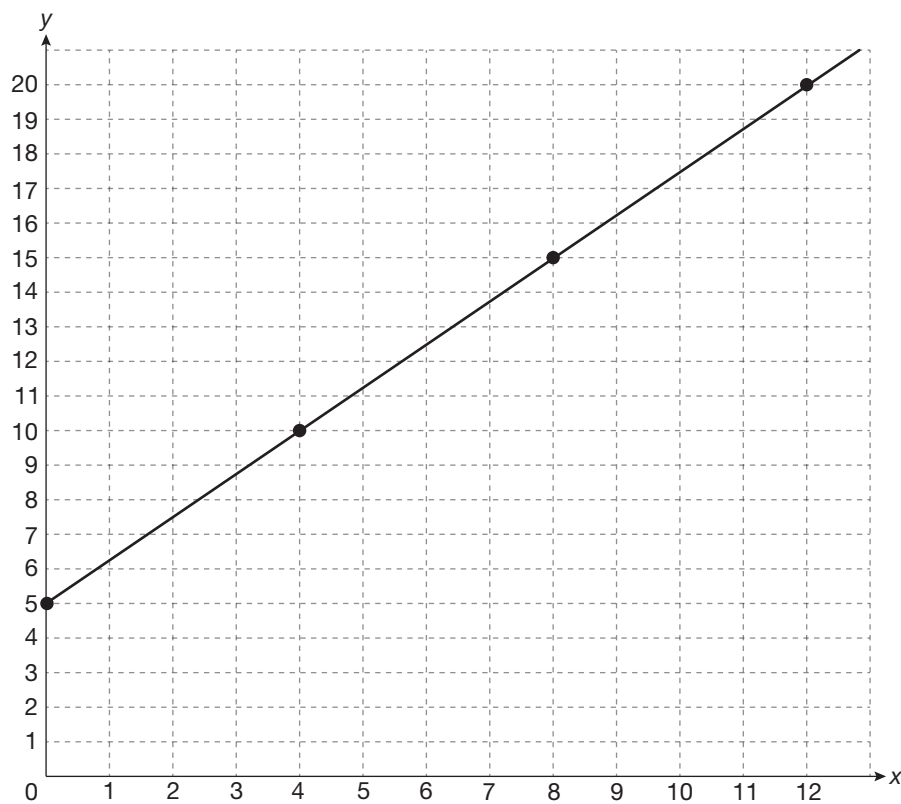
3. Determine the equation for the given table of values.

x	y
0	0
3.8	20.9
7.6	41.8
11.4	62.7

4. Determine the equation using the given table of values.

x	y
0	8
3	29
6	50
9	71

5.   The cost of a dinner at a restaurant is represented by the equation $C = 15n + 50$, where n is the number of people in attendance and C is the total cost of the dinner.

   a.   Complete the table of values below. Then graph the data.

n	C
0	
1	
2	
3	

   b.   The cost of a different menu at the same restaurant is represented by the equation $C = 15n + 70$, where n is the number of people in attendance and C is the total cost of the dinner. Complete the table below. Then graph the data.

n	C
0	
1	
2	
3	

   c.   Compare the graphs in *part a* and *part b*. How are they the same? How are they different?

   d.   What would happen to the graph if the equation was $C = 15n + 30$?

   e.   What does the fixed value, or y-intercept, in the equation represent?