

7 - Slope, Y-Intercept, and Function Rules of Tables

Score _____ Per _____

1. **a.** What variable do we use to represent rate of change, or slope? _____
 - b.** What variable do we use to represent initial value, or y-intercept? _____
 - c.** Use your answers from **a** and **b** to fill in the blanks of the following function rule: $y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$
 - d.** What do you call the form of the equation in part **c**? _____
2. What does the equation look like if the slope is undefined? _____
 3. How do you find the rate of change from a table? _____

 4. How do you find the initial value in a table? _____

For each table, find the slope and y-intercept. Then write the function rule for the table in slope-intercept form.

<i>Table</i>	<i>Slope (m)</i>	<i>Y-Intercept (0, b)</i>	<i>Function Rule</i>										
<table border="1" style="margin: auto;"> <tr><td><i>x</i></td><td><i>y</i></td></tr> <tr><td>-1</td><td>9</td></tr> <tr><td>0</td><td>7</td></tr> <tr><td>1</td><td>5</td></tr> <tr><td>2</td><td>3</td></tr> </table>	<i>x</i>	<i>y</i>	-1	9	0	7	1	5	2	3	5. _____	6. (0, _____)	7. _____
<i>x</i>	<i>y</i>												
-1	9												
0	7												
1	5												
2	3												
<table border="1" style="margin: auto;"> <tr><td><i>x</i></td><td><i>y</i></td></tr> <tr><td>3</td><td>-5</td></tr> <tr><td>6</td><td>-10</td></tr> <tr><td>9</td><td>-15</td></tr> </table>	<i>x</i>	<i>y</i>	3	-5	6	-10	9	-15	8. _____	9. (0, _____)	10. _____		
<i>x</i>	<i>y</i>												
3	-5												
6	-10												
9	-15												
<table border="1" style="margin: auto;"> <tr><td><i>x</i></td><td><i>y</i></td></tr> <tr><td>3</td><td>8</td></tr> <tr><td>2</td><td>8</td></tr> <tr><td>1</td><td>8</td></tr> </table>	<i>x</i>	<i>y</i>	3	8	2	8	1	8	11. _____	12. (0, _____)	13. _____		
<i>x</i>	<i>y</i>												
3	8												
2	8												
1	8												
<table border="1" style="margin: auto;"> <tr><td><i>x</i></td><td><i>y</i></td></tr> <tr><td>-1</td><td>0</td></tr> <tr><td>-1</td><td>1</td></tr> <tr><td>-1</td><td>2</td></tr> <tr><td>-1</td><td>3</td></tr> </table>	<i>x</i>	<i>y</i>	-1	0	-1	1	-1	2	-1	3	14. _____	15. (0, _____)	16. _____
<i>x</i>	<i>y</i>												
-1	0												
-1	1												
-1	2												
-1	3												

x	y
0	-3
2	-5
5	-8

17. _____

18. (0, _____)

19. _____

x	y
2	7
4	7
6	7

20. _____

21. (0, _____)

22. _____

x	y
-2	4
2	2
4	1
8	-1

23. _____

24. (0, _____)

25. _____

x	y
-6	-9
-3	-5
3	3
9	11

26. _____

27. (0, _____)

28. _____

x	y
18	-6
18	0

29. _____

30. (0, _____)

31. _____