

## Identifying Rate of Change (Equations)

Name: \_\_\_\_\_

Identify the rate of change.

**Answers**

1)  $Y=9\times X+(X\times -1)$

2)  $Y=X-8$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

3)  $Y=X\times 3$

4)  $Y=2\times X-(X+2)$

5)  $Y=X+3$

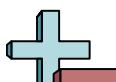
6)  $Y=7\times X$

7)  $Y=-X$

8)  $Y=4\times X-(X-8)$

9)  $Y=8\times X\times 8$

10)  $Y=5\times X+8$



## Identifying Rate of Change (Equations)

Name: **Answer Key**

Identify the rate of change.

1)  $Y=9\times X+(X\times -1)$

X	Y	ROC
-1	-8	8
0	0	8
1	8	8
2	16	8

2)  $Y=X-8$

X	Y	ROC
-1	-9	1
0	-8	1
1	-7	1
2	-6	1

3)  $Y=X\times 3$

X	Y	ROC
-1	-3	3
0	0	3
1	3	3
2	6	3

4)  $Y=2\times X-(X+2)$

X	Y	ROC
-1	-3	1
0	-2	1
1	-1	1
2	0	1

5)  $Y=X+3$

X	Y	ROC
-1	2	1
0	3	1
1	4	1
2	5	1

6)  $Y=7\times X$

X	Y	ROC
-1	-7	7
0	0	7
1	7	7
2	14	7

7)  $Y=-X$

X	Y	ROC
-1	1	-1
0	0	-1
1	-1	-1
2	-2	-1

8)  $Y=4\times X-(X-8)$

X	Y	ROC
-1	5	3
0	8	3
1	11	3
2	14	3

9)  $Y=8\times X\times 8$

X	Y	ROC
-1	-64	64
0	0	64
1	64	64
2	128	64

10)  $Y=5\times X+8$

X	Y	ROC
-1	3	5
0	8	5
1	13	5
2	18	5

**Answers**

1. **8**
2. **1**
3. **3**
4. **1**
5. **1**
6. **7**
7. **1**
8. **3**
9. **64**
10. **5**