Identifying Rate of Change (Equations)

Name:

Identify the rate of change.

1) Y=9×X+(X×-1)

2) Y=X-8

3) Y=X×3

4) Y=2×X-(X+2)

5) Y=X+3

6) Y=7×X

7) Y=-X

8) Y=4×X-(X-8)

9) Y=8×X×8

10) Y=5×X+8

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Identifying Rate of Change (Equations) Name: **Answer Key**

Identify the rate of change.

1) Y=9×X+(X×-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×3

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

4) Y=2×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×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×X-(X-8)

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

9) Y=8×X×8

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

10) Y=5×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**

1-10	90	80	70	60	50	40	30	20	10	0