



Identify the rate of change for each equation.

1)  $Y=6 \times X-(X-9)$

2)  $Y=5 \times X+(X-7)$

3)  $Y=7 \times X-(X \times 7)$

4)  $Y=3 \times X-(X+2)$

5)  $Y=5 \times X+7$

6)  $Y=2 \times X$

7)  $Y=7 \times X+(X \times -1)$

8)  $Y=4 \times X+(X+5)$

9)  $Y=X+4$

10)  $Y=X-(8 \times -1)$

Answers

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=6 \times X-(X-9)$

X	Y	ROC
-1	4	5
0	9	5
1	14	5
2	19	5

2)  $Y=5 \times X+(X-7)$

X	Y	ROC
-1	-13	6
0	-7	6
1	-1	6
2	5	6

3)  $Y=7 \times X-(X \times 7)$

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

4)  $Y=3 \times X-(X+2)$

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

5)  $Y=5 \times X+7$

X	Y	ROC
-1	2	5
0	7	5
1	12	5
2	17	5

6)  $Y=2 \times X$

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

7)  $Y=7 \times X+(X \times -1)$

X	Y	ROC
-1	-6	6
0	0	6
1	6	6
2	12	6

8)  $Y=4 \times X+(X+5)$

X	Y	ROC
-1	0	5
0	5	5
1	10	5
2	15	5

9)  $Y=X+4$

X	Y	ROC
-1	3	1
0	4	1
1	5	1
2	6	1

10)  $Y=X-(8 \times -1)$

X	Y	ROC
-1	7	1
0	8	1
1	9	1
2	10	1

Answers

1. 5
2. 6
3. 0
4. 2
5. 5
6. 2
7. 6
8. 5
9. 1
10. 1



Identify the rate of change for each equation.

1)  $Y=7 \times X-(X+6)$

2)  $Y=-X$

3)  $Y=X-(6 \times -1)$

4)  $Y=7 \times X+(X+3)$

5)  $Y=4 \times X-2$

6)  $Y=6 \times X-(X-6)$

7)  $Y=4 \times X+(X \times -1)$

8)  $Y=X+3$

9)  $Y=5 \times X+4$

10)  $Y=8 \times X+(X-2)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=7 \times X-(X+6)$

X	Y	ROC
-1	-12	6
0	-6	6
1	0	6
2	6	6

2)  $Y=-X$

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

3)  $Y=X-(6 \times -1)$

X	Y	ROC
-1	5	1
0	6	1
1	7	1
2	8	1

4)  $Y=7 \times X+(X+3)$

X	Y	ROC
-1	-5	8
0	3	8
1	11	8
2	19	8

5)  $Y=4 \times X-2$

X	Y	ROC
-1	-6	4
0	-2	4
1	2	4
2	6	4

6)  $Y=6 \times X-(X-6)$

X	Y	ROC
-1	1	5
0	6	5
1	11	5
2	16	5

7)  $Y=4 \times X+(X \times -1)$

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

8)  $Y=X+3$

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

9)  $Y=5 \times X+4$

X	Y	ROC
-1	-1	5
0	4	5
1	9	5
2	14	5

10)  $Y=8 \times X+(X-2)$

X	Y	ROC
-1	-11	9
0	-2	9
1	7	9
2	16	9

Answers

1. 6

2. 1

3. 1

4. 8

5. 4

6. 5

7. 3

8. 1

9. 5

10. 9



Identify the rate of change for each equation.

1)  $Y = X + 2$

2)  $Y = 3 \times X \times (X + 6)$

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

4)  $Y = 6 \times X - (X + 5)$

5)  $Y = 2 \times X - (X \times -1)$

6)  $Y = -X$

7)  $Y = 5 \times X + (X \times -1)$

8)  $Y = X \times 3$

9)  $Y = 6 \times X + (X - 8)$

10)  $Y = X + (3 \times -1)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=X+2$

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

2)  $Y=3 \times X \times (X \times 6)$

X	Y	ROC
-1	18	-180
0	0	-180
1	18	144
2	72	180

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

X	Y	ROC
-1	8	1
0	9	1
1	10	1
2	11	1

4)  $Y=6 \times X-(X+5)$

X	Y	ROC
-1	-10	5
0	-5	5
1	0	5
2	5	5

5)  $Y=2 \times X-(X \times -1)$

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

6)  $Y=-X$

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

7)  $Y=5 \times X+(X \times -1)$

X	Y	ROC
-1	-4	4
0	0	4
1	4	4
2	8	4

8)  $Y=X \times 3$

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

9)  $Y=6 \times X+(X-8)$

X	Y	ROC
-1	-15	7
0	-8	7
1	-1	7
2	6	7

10)  $Y=X+(3 \times -1)$

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

Answers

1. 1
2. 180
3. 1
4. 5
5. 3
6. 1
7. 4
8. 3
9. 7
10. 1



Identify the rate of change for each equation.

1)  $Y=5 \times X+(X-8)$

2)  $Y=2 \times X$

3)  $Y=X-(5 \times -1)$

4)  $Y=X-5$

5)  $Y=8 \times X-(X-7)$

6)  $Y=9 \times X+(X+7)$

7)  $Y=X+2$

8)  $Y=5 \times X-(X \times 8)$

9)  $Y=X+(6 \times -1)$

10)  $Y=6 \times X+3$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=5 \times X+(X-8)$

X	Y	ROC
-1	-14	6
0	-8	6
1	-2	6
2	4	6

2)  $Y=2 \times X$

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

3)  $Y=X-(5 \times -1)$

X	Y	ROC
-1	4	1
0	5	1
1	6	1
2	7	1

4)  $Y=X-5$

X	Y	ROC
-1	-6	1
0	-5	1
1	-4	1
2	-3	1

5)  $Y=8 \times X-(X-7)$

X	Y	ROC
-1	0	7
0	7	7
1	14	7
2	21	7

6)  $Y=9 \times X+(X+7)$

X	Y	ROC
-1	-3	10
0	7	10
1	17	10
2	27	10

7)  $Y=X+2$

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

8)  $Y=5 \times X-(X \times 8)$

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

9)  $Y=X+(6 \times -1)$

X	Y	ROC
-1	-7	1
0	-6	1
1	-5	1
2	-4	1

10)  $Y=6 \times X+3$

X	Y	ROC
-1	-3	6
0	3	6
1	9	6
2	15	6

Answers

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





Identify the rate of change for each equation.

1)  $Y=2 \times X-(X \times 3)$

2)  $Y=8 \times X+(X+4)$

3)  $Y=6 \times X+(X \times 4)$

4)  $Y=X+(8 \times -1)$

5)  $Y=6 \times X+(X-3)$

6)  $Y=8 \times X+7$

7)  $Y=X-(6 \times -1)$

8)  $Y=X-8$

9)  $Y=8 \times X$

10)  $Y=5 \times X-(X-2)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=2 \times X-(X \times 3)$

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

2)  $Y=8 \times X+(X+4)$

X	Y	ROC
-1	-5	9
0	4	9
1	13	9
2	22	9

3)  $Y=6 \times X+(X \times 4)$

X	Y	ROC
-1	-10	10
0	0	10
1	10	10
2	20	10

4)  $Y=X+(8 \times -1)$

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

5)  $Y=6 \times X+(X-3)$

X	Y	ROC
-1	-10	7
0	-3	7
1	4	7
2	11	7

6)  $Y=8 \times X+7$

X	Y	ROC
-1	-1	8
0	7	8
1	15	8
2	23	8

7)  $Y=X-(6 \times -1)$

X	Y	ROC
-1	5	1
0	6	1
1	7	1
2	8	1

8)  $Y=X-8$

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

9)  $Y=8 \times X$

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

10)  $Y=5 \times X-(X-2)$

X	Y	ROC
-1	-2	4
0	2	4
1	6	4
2	10	4

Answers

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



Identify the rate of change for each equation.

1)  $Y=4 \times X$

2)  $Y=2 \times X+(X \times 3)$

3)  $Y=2 \times X-(X \times -1)$

4)  $Y=5 \times X+(X \times -1)$

5)  $Y=7 \times X-(X+7)$

6)  $Y=6 \times X-4$

7)  $Y=6 \times X+9$

8)  $Y=X-(4 \times -1)$

9)  $Y=2 \times X-(X-6)$

10)  $Y=X-9$

Answers

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=4 \times X$

X	Y	ROC
-1	-4	4
0	0	4
1	4	4
2	8	4

2)  $Y=2 \times X+(X \times 3)$

X	Y	ROC
-1	-5	5
0	0	5
1	5	5
2	10	5

3)  $Y=2 \times X-(X \times -1)$

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

4)  $Y=5 \times X+(X \times -1)$

X	Y	ROC
-1	-4	4
0	0	4
1	4	4
2	8	4

5)  $Y=7 \times X-(X+7)$

X	Y	ROC
-1	-13	6
0	-7	6
1	-1	6
2	5	6

6)  $Y=6 \times X-4$

X	Y	ROC
-1	-10	6
0	-4	6
1	2	6
2	8	6

7)  $Y=6 \times X+9$

X	Y	ROC
-1	3	6
0	9	6
1	15	6
2	21	6

8)  $Y=X-(4 \times -1)$

X	Y	ROC
-1	3	1
0	4	1
1	5	1
2	6	1

9)  $Y=2 \times X-(X-6)$

X	Y	ROC
-1	5	1
0	6	1
1	7	1
2	8	1

10)  $Y=X-9$

X	Y	ROC
-1	-10	1
0	-9	1
1	-8	1
2	-7	1

Answers

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



Identify the rate of change for each equation.

1)  $Y=5 \times X-(X-9)$

2)  $Y=4 \times X+(X \times -1)$

3)  $Y=3 \times X-(X \times 2)$

4)  $Y=2 \times X+(X-3)$

5)  $Y=X+(7 \times -1)$

6)  $Y=4 \times X+(X+9)$

7)  $Y=-X$

8)  $Y=2 \times X-(X \times -1)$

9)  $Y=4 \times X$

10)  $Y=X-(5 \times -1)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=5 \times X-(X-9)$

X	Y	ROC
-1	5	4
0	9	4
1	13	4
2	17	4

2)  $Y=4 \times X+(X \times -1)$

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

3)  $Y=3 \times X-(X \times 2)$

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

4)  $Y=2 \times X+(X-3)$

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

5)  $Y=X+(7 \times -1)$

X	Y	ROC
-1	-8	1
0	-7	1
1	-6	1
2	-5	1

6)  $Y=4 \times X+(X+9)$

X	Y	ROC
-1	4	5
0	9	5
1	14	5
2	19	5

7)  $Y=-X$

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

8)  $Y=2 \times X-(X \times -1)$

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

9)  $Y=4 \times X$

X	Y	ROC
-1	-4	4
0	0	4
1	4	4
2	8	4

10)  $Y=X-(5 \times -1)$

X	Y	ROC
-1	4	1
0	5	1
1	6	1
2	7	1

Answers

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



Identify the rate of change for each equation.

1)  $Y = X + 6$

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

3)  $Y = 5 \times X - (X \times 4)$

4)  $Y = 5 \times X + (X + 4)$

5)  $Y = 4 \times X + 4$

6)  $Y = -X$

7)  $Y = X - 7$

8)  $Y = X \times 8$

9)  $Y = 6 \times X \times 2$

10)  $Y = X - (5 \times -1)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=X+6$

X	Y	ROC
-1	5	1
0	6	1
1	7	1
2	8	1

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

X	Y	ROC
-1	3	1
0	4	1
1	5	1
2	6	1

3)  $Y=5 \times X-(X \times 4)$

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

4)  $Y=5 \times X+(X+4)$

X	Y	ROC
-1	-2	6
0	4	6
1	10	6
2	16	6

5)  $Y=4 \times X+4$

X	Y	ROC
-1	0	4
0	4	4
1	8	4
2	12	4

6)  $Y=-X$

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

7)  $Y=X-7$

X	Y	ROC
-1	-8	1
0	-7	1
1	-6	1
2	-5	1

8)  $Y=X \times 8$

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

9)  $Y=6 \times X \times 2$

X	Y	ROC
-1	-12	12
0	0	12
1	12	12
2	24	12

10)  $Y=X-(5 \times -1)$

X	Y	ROC
-1	4	1
0	5	1
1	6	1
2	7	1

Answers

1. 1
2. 1
3. 1
4. 6
5. 4
6. 1
7. 1
8. 8
9. 12
10. 1





Identify the rate of change for each equation.

1)  $Y = X - (6 \times -1)$

2)  $Y = 5 \times X - (X - 9)$

3)  $Y = X - 2$

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

5)  $Y = 8 \times X + (X \times -1)$

6)  $Y = -X$

7)  $Y = 5 \times X + (X - 9)$

8)  $Y = 4 \times X$

9)  $Y = 7 \times X \times 2$

10)  $Y = 6 \times X - (X \times -1)$

**Answers**

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y = X - (6 \times -1)$

X	Y	ROC
-1	5	1
0	6	1
1	7	1
2	8	1

2)  $Y = 5 \times X - (X - 9)$

X	Y	ROC
-1	5	4
0	9	4
1	13	4
2	17	4

3)  $Y = X - 2$

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

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

X	Y	ROC
-1	-5	9
0	4	9
1	13	9
2	22	9

5)  $Y = 8 \times X + (X \times -1)$

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

6)  $Y = -X$

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

7)  $Y = 5 \times X + (X - 9)$

X	Y	ROC
-1	-15	6
0	-9	6
1	-3	6
2	3	6

8)  $Y = 4 \times X$

X	Y	ROC
-1	-4	4
0	0	4
1	4	4
2	8	4

9)  $Y = 7 \times X \times 2$

X	Y	ROC
-1	-14	14
0	0	14
1	14	14
2	28	14

10)  $Y = 6 \times X - (X \times -1)$

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

Answers

1. 1
2. 4
3. 1
4. 9
5. 7
6. 1
7. 6
8. 4
9. 14
10. 7



Identify the rate of change for each equation.

1)  $Y=2 \times X-(X \times -1)$

2)  $Y=3 \times X+(X \times -1)$

3)  $Y=9 \times X-(X \times 5)$

4)  $Y=X+2$

5)  $Y=3 \times X \times 2$

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

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

8)  $Y=X \times 9$

9)  $Y=9 \times X-(X+4)$

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

Answers

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

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

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

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

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

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

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

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

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

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



Identify the rate of change for each equation.

1)  $Y=2 \times X-(X \times -1)$

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

2)  $Y=3 \times X+(X \times -1)$

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

3)  $Y=9 \times X-(X \times 5)$

X	Y	ROC
-1	-4	4
0	0	4
1	4	4
2	8	4

4)  $Y=X+2$

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

5)  $Y=3 \times X \times 2$

X	Y	ROC
-1	-6	6
0	0	6
1	6	6
2	12	6

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

X	Y	ROC
-1	-10	1
0	-9	1
1	-8	1
2	-7	1

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

X	Y	ROC
-1	8	1
0	9	1
1	10	1
2	11	1

8)  $Y=X \times 9$

X	Y	ROC
-1	-9	9
0	0	9
1	9	9
2	18	9

9)  $Y=9 \times X-(X+4)$

X	Y	ROC
-1	-12	8
0	-4	8
1	4	8
2	12	8

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

X	Y	ROC
-1	-1	9
0	8	9
1	17	9
2	26	9

Answers

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