



Identify the rate of change.

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

2) $Y = X - 8$

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) $Y = 5 \times X + 8$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



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



Identify the rate of change.

Answers

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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

4) $Y = X - 3$

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

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

7) $Y = 9 \times X$

8) $Y = X + 8$

9) $Y = -X$

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



Identify the rate of change.

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

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

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

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

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

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

4) $Y = X - 3$

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

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

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

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

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

7) $Y = 9 \times X$

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

8) $Y = X + 8$

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

9) $Y = -X$

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

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

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

Answers

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



Identify the rate of change.

1) $Y = 2 \times X - 6$

2) $Y = X + 2$

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

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

5) $Y = X - 2$

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

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

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

9) $Y = 7 \times X + (X - 8)$

10) $Y = 5 \times X \times 6$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Identify the rate of change.

1) $Y=2 \times X-6$

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

2) $Y=X+2$

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

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

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

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

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

5) $Y=X-2$

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

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

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

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

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

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

X	Y	ROC
-1	-3	9
0	6	9
1	15	9
2	24	9

9) $Y=7 \times X+(X-8)$

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

10) $Y=5 \times X \times 6$

X	Y	ROC
-1	-30	30
0	0	30
1	30	30
2	60	30

Answers1. 22. 13. 54. 45. 16. 17. 08. 99. 810. 30



Identify the rate of change.

1) $Y = 6 \times X + 5$

2) $Y = X - 7$

3) $Y = X + 6$

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

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

6) $Y = 4 \times X - 3$

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Identify the rate of change.

1) $Y=6 \times X+5$

X	Y	ROC
-1	-1	6
0	5	6
1	11	6
2	17	6

2) $Y=X-7$

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

3) $Y=X+6$

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

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

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

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

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

6) $Y=4 \times X-3$

X	Y	ROC
-1	-7	4
0	-3	4
1	1	4
2	5	4

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

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

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

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

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

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

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

X	Y	ROC
-1	-13	13
0	0	13
1	13	13
2	26	13

Answers

1. 6
2. 1
3. 1
4. 3
5. 5
6. 4
7. 1
8. 5
9. 1
10. 13



Identify the rate of change.

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

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

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

4) $Y = X \times 4$

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

6) $Y = X - 4$

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

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

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

10) $Y = X + 9$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Identify the rate of change.

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

X	Y	ROC
-1	-2	8
0	6	8
1	14	8
2	22	8

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

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

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

X	Y	ROC
-1	-35	35
0	0	35
1	35	35
2	70	35

4) $Y = X \times 4$

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

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

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

6) $Y = X - 4$

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

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

X	Y	ROC
-1	-14	9
0	-5	9
1	4	9
2	13	9

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

X	Y	ROC
-1	-13	8
0	-5	8
1	3	8
2	11	8

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

X	Y	ROC
-1	-7	9
0	2	9
1	11	9
2	20	9

10) $Y = X + 9$

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

Answers

1. 8
2. 1
3. 35
4. 4
5. 1
6. 1
7. 9
8. 8
9. 9
10. 1



Identify the rate of change.

1) $Y = X - 7$

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

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

4) $Y = X \times 9$

5) $Y = 3 \times X + 4$

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

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

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

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

10) $Y = 6 \times X \times (X + 5)$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Identify the rate of change.

1) $Y = X - 7$

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

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

X	Y	ROC
-1	-11	5
0	-6	5
1	-1	5
2	4	5

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

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

4) $Y = X \times 9$

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

5) $Y = 3 \times X + 4$

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

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

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

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

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

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

X	Y	ROC
-1	-40	40
0	0	40
1	40	40
2	80	40

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

X	Y	ROC
-1	-12	10
0	-2	10
1	8	10
2	18	10

10) $Y = 6 \times X \times (X + 5)$

X	Y	ROC
-1	-24	36
0	0	36
1	36	-18
2	84	18

Answers

1. 1
2. 5
3. 1
4. 9
5. 3
6. 10
7. 1
8. 40
9. 10
10. 18



Identify the rate of change.

Answers

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

2) $Y = -X$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3) $Y = X \times 7$

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

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

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

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

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

9) $Y = X + 7$

10) $Y = X - 3$



Identify the rate of change.

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

X	Y	ROC
-1	-5	7
0	2	7
1	9	7
2	16	7

2) $Y = -X$

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

3) $Y = X \times 7$

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

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

X	Y	ROC
-1	-36	36
0	0	36
1	36	36
2	72	36

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

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

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

X	Y	ROC
-1	-16	16
0	0	16
1	16	16
2	32	16

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

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

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

X	Y	ROC
-1	-3	7
0	4	7
1	11	7
2	18	7

9) $Y = X + 7$

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

10) $Y = X - 3$

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

Answers

1. 7
2. 1
3. 7
4. 36
5. 3
6. 16
7. 5
8. 7
9. 1
10. 1



Identify the rate of change.

Answers

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

3) $Y = X + 3$

4) $Y = 7 \times X \times 4$

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

6) $Y = 5 \times X$

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

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

9) $Y = X \times 7$

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



Identify the rate of change.

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

X	Y	ROC
-1	-8	5
0	-3	5
1	2	5
2	7	5

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

X	Y	ROC
-1	-3	5
0	2	5
1	7	5
2	12	5

3) $Y=X+3$

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

4) $Y=7 \times X \times 4$

X	Y	ROC
-1	-28	28
0	0	28
1	28	28
2	56	28

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

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

6) $Y=5 \times X$

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

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

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

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

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

9) $Y=X \times 7$

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

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

X	Y	ROC
-1	-11	11
0	0	11
1	11	11
2	22	11

Answers

1. 5
2. 5
3. 1
4. 28
5. 1
6. 5
7. 4
8. 4
9. 7
10. 11



Identify the rate of change.

Answers

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

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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

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

5) $Y = X - 9$

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

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

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

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

10) $Y = -X$



Identify the rate of change.

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

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

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

X	Y	ROC
-1	-5	7
0	2	7
1	9	7
2	16	7

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

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

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

X	Y	ROC
-1	-9	4
0	-5	4
1	-1	4
2	3	4

5) $Y = X - 9$

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

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

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

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

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

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

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

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

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

10) $Y = -X$

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

Answers

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



Identify the rate of change.

Answers

1) $Y = X + 9$

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

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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

4) $Y = 8 \times X - (X \times 3)$

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

6) $Y = 5 \times X \times 9$

7) $Y = X - 5$

8) $Y = 9 \times X + 2$

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

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



Identify the rate of change.

1) $Y = X + 9$

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

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

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

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

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

4) $Y = 8 \times X - (X \times 3)$

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

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

X	Y	ROC
-1	-15	8
0	-7	8
1	1	8
2	9	8

6) $Y = 5 \times X \times 9$

X	Y	ROC
-1	-45	45
0	0	45
1	45	45
2	90	45

7) $Y = X - 5$

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

8) $Y = 9 \times X + 2$

X	Y	ROC
-1	-7	9
0	2	9
1	11	9
2	20	9

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

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

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

X	Y	ROC
-1	-12	5
0	-7	5
1	-2	5
2	3	5

Answers

1. 1
2. 1
3. 1
4. 5
5. 8
6. 45
7. 1
8. 9
9. 3
10. 5