



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