



Identify the rate of change.

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

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

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) $Y=-X$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



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 |

Answers1. 32. 73. 24. 45. 16. 17. 68. 39. 1010. 1