



Identify the rate of change.

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

2) $Y=-X$

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) $Y=X-3$

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



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 |

Answers1. 72. 13. 74. 365. 36. 167. 58. 79. 110. 1