



Identify the rate of change.

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

2) $Y=2 \times X$

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

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

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

6) $Y=X+3$

7) $Y=X-8$

8) $Y=X \times 9$

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Identify the rate of change.

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

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

2) $Y=2 \times X$

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

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

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

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

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

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

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

6) $Y=X+3$

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

7) $Y=X-8$

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

8) $Y=X \times 9$

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

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

| X | Y | ROC |
|----|----|-----|
| -1 | 2 | 4 |
| 0 | 6 | 4 |
| 1 | 10 | 4 |
| 2 | 14 | 4 |

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

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

Answers1. 62. 23. 64. 15. 96. 17. 18. 99. 410. 3