



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 |

Answers1. 12. 53. 14. 95. 36. 107. 18. 409. 1010. 18