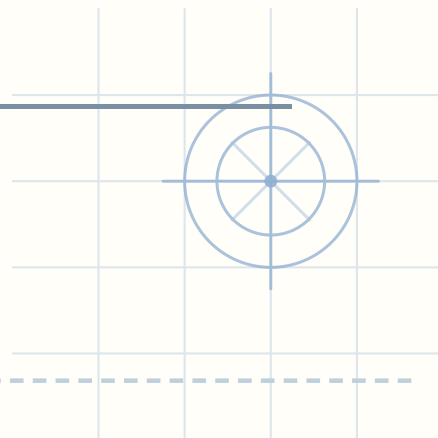


Rate of change — The value at $x = 0$

Name: _____

Date: _____

Each table is a straight line. Find what each one asks for.



1

x	4	5	6	7
y	60	68	76	84

 y at 0 $\rightarrow$ _____

2

x	9	10	11	12
y	77	85	93	101

 y at 0 $\rightarrow$ _____

3

x	1	2	3	4
y	26	38	50	62

 y at 0 $\rightarrow$ _____

4

x	4	10	16	22
y	47	89	131	173

 y at 0 $\rightarrow$ _____

5

x	5	9	13	17
y	70	94	118	142

 y at 0 $\rightarrow$ _____

6

x	7	8	9	10
y	50	53	56	59

 y at 0 $\rightarrow$ _____

7

x	1	4	7	10
y	6	21	36	51

 y at 0 $\rightarrow$ _____

8

x	1	3	5	7
y	62	52	42	32

 y at 0 $\rightarrow$ _____



Rate of change · The value at $x = 0$ — Answer key

1. x : 4, 5, 6, 7 y : 60, 68, 76, 84 $\rightarrow$ 28 (at $x = 4$ the value is 60, and stepping back 4 of them at 8 each gives 28)

2. x : 9, 10, 11, 12 y : 77, 85, 93, 101 $\rightarrow$ 5 (at $x = 9$ the value is 77, and stepping back 9 of them at 8 each gives 5)

3. x : 1, 2, 3, 4 y : 26, 38, 50, 62 $\rightarrow$ 14 (at $x = 1$ the value is 26, and stepping back 1 of them at 12 each gives 14)

4. x : 4, 10, 16, 22 y : 47, 89, 131, 173 $\rightarrow$ 19 (at $x = 4$ the value is 47, and stepping back 4 of them at 7 each gives 19)

5. x : 5, 9, 13, 17 y : 70, 94, 118, 142 $\rightarrow$ 40 (at $x = 5$ the value is 70, and stepping back 5 of them at 6 each gives 40)

6. x : 7, 8, 9, 10 y : 50, 53, 56, 59 $\rightarrow$ 29 (at $x = 7$ the value is 50, and stepping back 7 of them at 3 each gives 29)

7. x : 1, 4, 7, 10 y : 6, 21, 36, 51 $\rightarrow$ 1 (at $x = 1$ the value is 6, and stepping back 1 of them at 5 each gives 1)

8. x : 1, 3, 5, 7 y : 62, 52, 42, 32 $\rightarrow$ 67 (at $x = 1$ the value is 62, and stepping back 1 of them at -5 each gives 67)