

Determine if the table represents a linear function. If so, calculate its rate of change

1.

Number of Balloons	Total Cost of Balloons (in Dollars)
2	6
4	12
6	18
8	24

2.

Number of Raffle Tickets	Total Cost of Raffle Tickets (in Dollars)
2	1
4	2
8	4
10	5

3.

x	y
2	14
5	35
7	49
10	70

4.

x	y
-10	50
-2	10
4	-20
14	-70

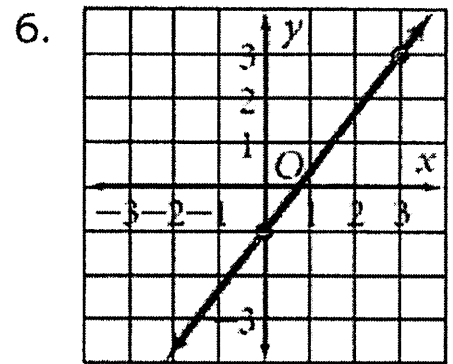
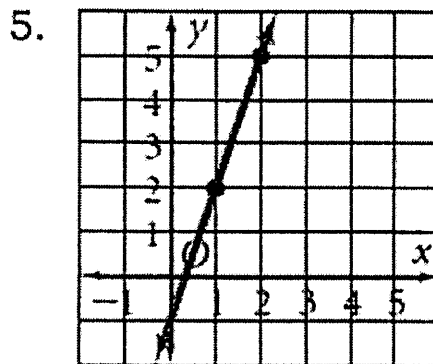
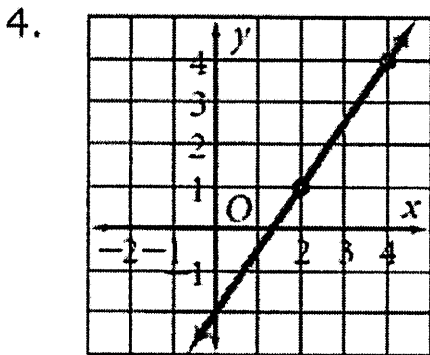
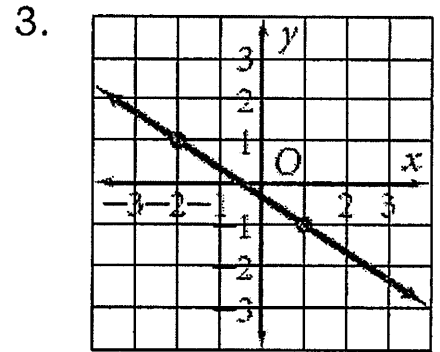
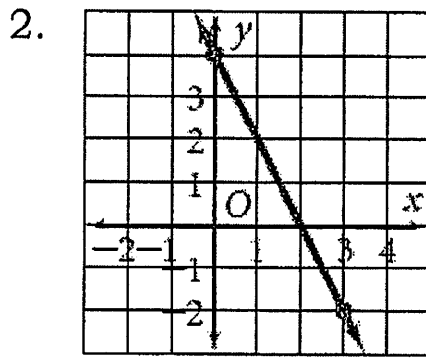
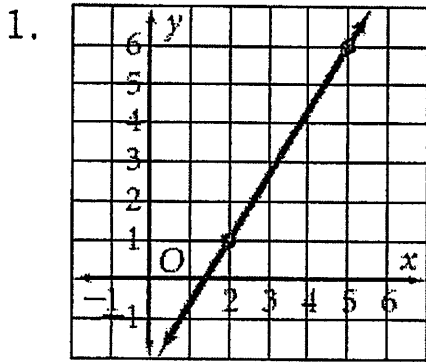
5.

x	y
-1	-24
2	48
4	90
8	192

6.

x	y
-6	12
-3	6
3	-6
6	-10

Calculate the rate of change of the linear graph given.



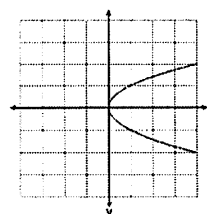
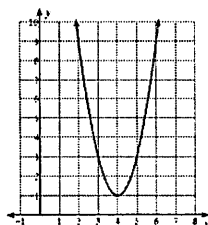
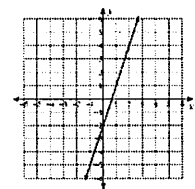
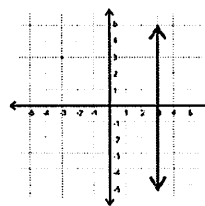
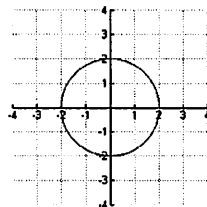
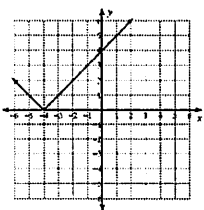
Label: Word Bank

Linear Function

Quadratic Function

Absolute Value Function

Not a Function



Determine if the table represents a linear function. If so, calculate its rate of change

1. Domain Range

Number of Balloons	Total Cost of Balloons (in Dollars)
2	6
4	12
6	18
8	24

+2 } +6
+2 } +6
+2 } +6

Yes its rate of change is $\frac{6}{2} = 3$

2. Domain Range

Number of Raffle Tickets	Total Cost of Raffle Tickets (in Dollars)
2	1
4	2
8	4
10	5

+2 } +1
+4 } +2
+2 } +1

Yes its rate of change is $\frac{1}{2}$

3.

x	y
2	14
5	35
7	49
10	70

+3 } +21 $\frac{7}{1}$
+2 } +14 $\frac{7}{1}$
+3 } +21 $\frac{7}{1}$

Yes its rate of change is $\frac{7}{1} = 7$

4.

x	y
-10	50
-2	10
4	-20
14	-70

+8 } -40 -5
+6 } -30 -5
+10 } -50 -5

Yes its rate of change is $\frac{-5}{1} = -5$

5.

x	y
-1	-24
2	48
4	90
8	192

+3 } +72 24
+2 } +42 21
+4 } +102

Not Linear

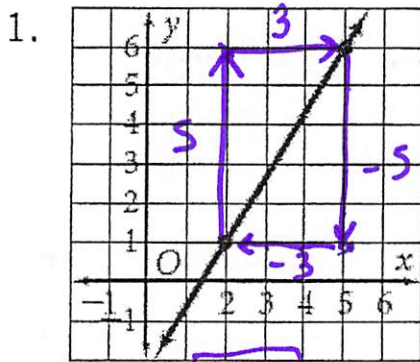
6.

x	y
-6	12
-3	6
3	-6
6	-10

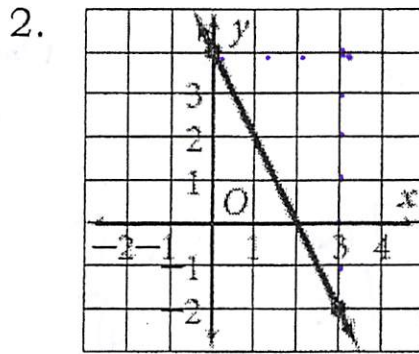
+3 } -6 -2
+6 } -12 -2
+3 } -4 - $\frac{4}{3}$

Not Linear

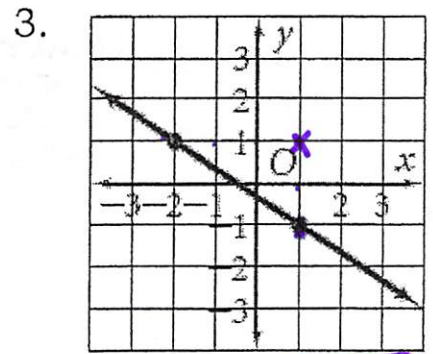
Calculate the rate of change of the linear graph given.



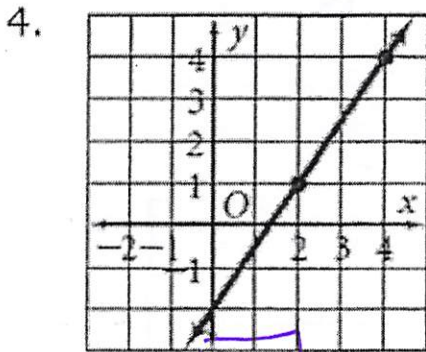
$$\frac{5}{3} = \frac{5}{3}$$



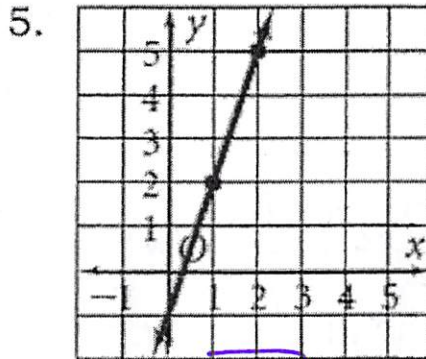
$$-\frac{6}{3} = -2$$



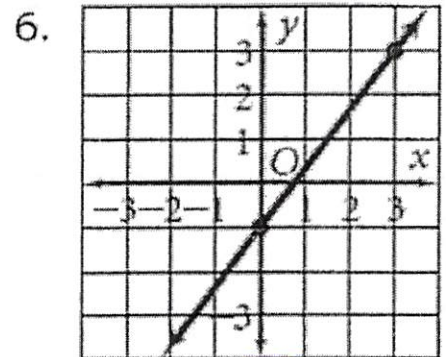
$$-\frac{2}{3} = -\frac{2}{3}$$



$$\frac{3}{2}$$



$$\frac{3}{1}$$



$$\frac{3}{1}$$

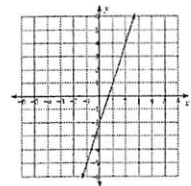
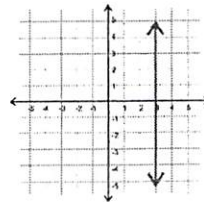
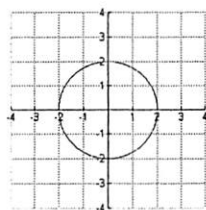
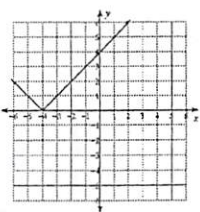
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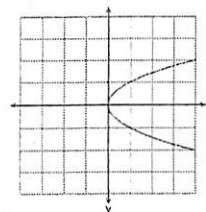
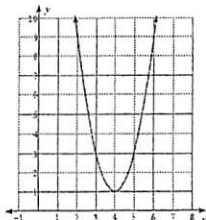
Absolute Value Function

Not a Function

Not a Function

Linear Function

Quadratic Function



Not a Function