

Directions: 1) Determine the change in the left side of the table and the right side of the table.  
 2) Use those numbers to determine if the relationship in the table is linear.  
 3) If the relationship is linear, find the rate of change (ROC)

1)

x	y
-2	4
-1	1
0	0
1	1
2	4
3	9

Linear? \_\_\_\_\_  
 ROC = \_\_\_\_\_

2)

year	pop
1960	606921
1970	746284
1980	920610
1990	1113915
2000	1238415
2010	1316472

Linear? \_\_\_\_\_  
 ROC = \_\_\_\_\_

3)

x	y
1	2
2	7
3	12
5	22

Linear? \_\_\_\_\_  
 ROC = \_\_\_\_\_

4)

x	y
1	.5
2	1
3	1.5
4	2
5	2.5
6	3

Linear? \_\_\_\_\_  
 ROC = \_\_\_\_\_

5)

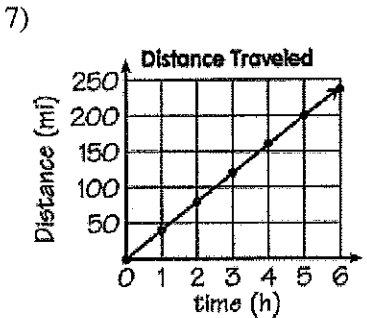
x	y
1	7
3	11
5	15
20	45

Linear? \_\_\_\_\_  
 ROC = \_\_\_\_\_

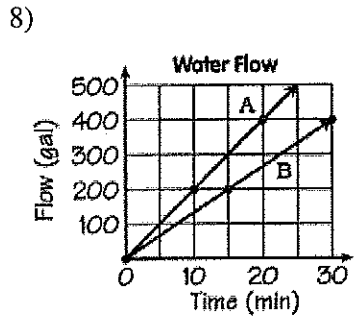
6)

Ticket Price (dollars)	Profit (Millions of Dollars)
200	3.08
250	3.52
300	3.76
350	3.82
400	3.70
450	3.38

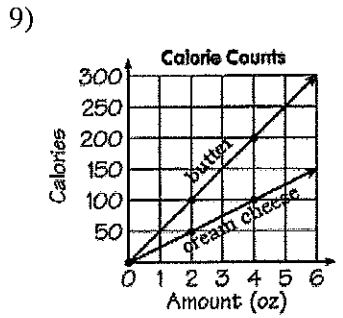
Linear? \_\_\_\_\_  
 ROC = \_\_\_\_\_



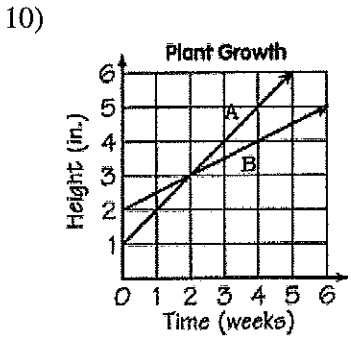
rate of change: \_\_\_\_\_



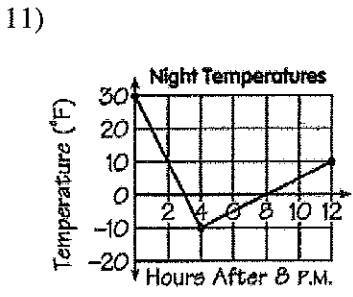
flow rate (A): \_\_\_\_\_  
 flow rate (B): \_\_\_\_\_



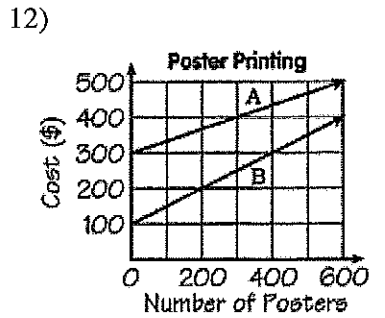
butter: \_\_\_\_\_  
 cream cheese: \_\_\_\_\_



plant A: \_\_\_\_\_  
 plant B: \_\_\_\_\_



rate for first 4 h: \_\_\_\_\_  
 rate for next 8 h: \_\_\_\_\_



rate for printer A: \_\_\_\_\_  
 rate for printer B: \_\_\_\_\_