

GGG Inv. 3-4 Additional Practice

For each table below, write an equation and determine the growth/decay RATE.

1.)

x	y
1	6
2	7.2
3	8.64
4	10.37
5	12.44

2.)

x	y
0	5000
1	5350
2	5724.5
3	6125.22
4	6553.98

3.)

x	y
0	5000
1	3900
2	3042
3	2372.76
4	1850.75

4.)

x	y
1	3
2	15
3	75
4	375
5	1875

5.)

x	y
0	0.5
1	1.35
2	3.65
3	9.84
4	26.58

6.)

x	y
0	400
1	528
2	696.96
3	919.99
4	1214.38

7.)

x	y
1	372
2	345.96
3	321.74
4	299.22
5	278.28

8.)

x	y
0	600
1	138
2	31.74
3	7.3
4	1.68

9) Put in order of fastest to slowest GROWTH.

47% increase $GF = 1.5$

150% increase $GF = 5$

480% increase $GF = 6.2$

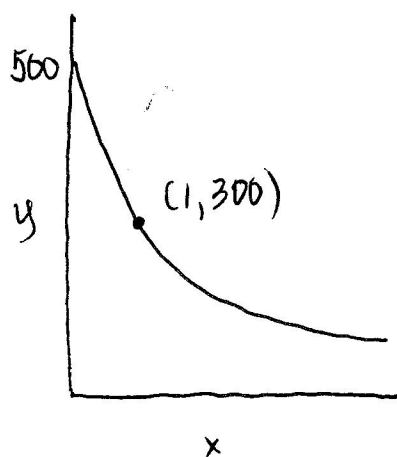
10) Put in order of fastest to slowest DECAY.

3% decrease Factor = 0.85

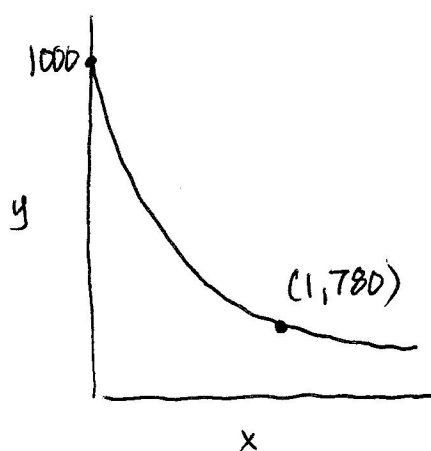
85% decrease Factor = 0.23

10.5% decrease Factor = 0.9

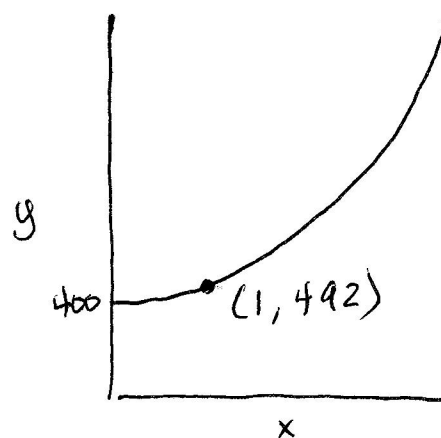
All graphs below are exponential. Write the equation and find the growth/decay rate.



11.)



12.)



13.)

Write equations for each scenario and describe what each variable and number means in the context of the situation.

14. Jeff puts \$1500 in the bank and earns 6.5% interest each year.

15. Andy puts \$1500 in the bank and earns \$100 per year.

16. The deer population is 2000 and is decreasing by 7.5% per year.