## Algebra 1 Finding Exponential Models

Find the exponential model for each of the following.

1)

Χ	0	1	2	3	4
F(x)	5	15	45	135	405

1)\_\_\_\_\_

2)

Χ	3	4	5	6	7
F(x)	13.5	20.25	30.375	45.5625	68.34375

2)

3)

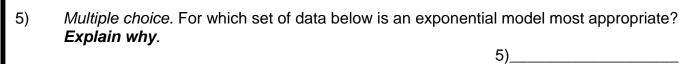
Χ	2	4	6	7	9
F(x)	96	1536	24576	98304	1572864

3)\_\_\_\_\_

4) A pharmaceutical company is testing a new anesthetic. They injected 14 mg of the anesthetic into the bloodstream of a laboratory rat and then monitored the level of the drug every hour. The results are in the table below.

Time (hr)	0	1	2	3	4	5	6	7	8	9
Anesthetic (mg)	14.00	9.38	6.28	4.21	2.82	1.89	1.27	.85	.57	.38

4)\_\_\_\_\_



a.	Х	0	1	2	3	4	5	6
	y	3	18	75	390	1800	10,000	50,000

b.	х	0	1	2	3	4	5	6
	y	3	15	75	375	1875	9375	46875

c.	х	0	1	2	3	4	5	6
	y	3	6	99	732	3075	9378	23331