Use the output ratio to find the growth/decay factor, determine if the table shows growth or decay, then identify the initial value, and write an exponential equation for the table.

1.

X	y
1	24
2	144
3	864
4	5184

2.

X	у
2	0.605
3	0.6655
4	0.73205
5	0.80526

3.

X	у
3	43.2
4	259.2
5	1555.2
6	9331.2

4.

χ	у
-5	200000
-4	20000
-3	2000
-2	200

5.

X	у
3	1536
4	12288
5	98304
6	786432

6.

X	y
2	0.04
3	0.008
4	0.0016
5	0.00032

-	`					
	-)ť	١t	P	V 1	•

be mo	car purchased for \$2	$00 \cdot (0.92)^t$, where		preciate, at a rate of 8% per year. This situation of years since the car was purchased. After how n	
	a) 4 years	b) 5 years	c) 6 years	d) 7 years	
y = 1	_	ere t is the number of	_	te of 5% per year. This situation can be modeled ar was purchased. After how many years is the c	-
	a) 7 years	b) 8 years	c) 9 years	d) 10 years	
		1 0		hour. Write a function that represents the amouste amount of water left in the puddle.	nt of
10. U volun		om the above proble	em, determine wher	en the puddle will be reduced to half its original	
				ust bunny originally weighs 0.7 oz. Write a funct e x for weeks and y for the weight of the dust bu	
12. Fi	and the weight of the	e dust bunny after 7	weeks.		