Unit 2	2 HW 23					
Name		uf_		Date		Period
		cle) whether the that follows.	e situation is ari	thmetic or (geometric. T	hen write an equation and
1.	1. While lounging around in a hotel's hot tub, you complain that the current temperature, hot enough. The hotel staff says they will increase the temperature 10% every hour. W temperature be in 3 hours?					
	Circle One:	Arithmetic	Geometric	V	•	
					90	9.83
2.	2. After a knee injury, your trainer tells you to return to your jogging program slowl jogging for 12 minutes each day for your first week and increasing that time by 6 week. After how many weeks will you be running an hour per day?					
	Circle One: (Arithmetic	Geometric		Formula: _	·
	`				2	1 weeks
3.	A new website got 4000 views on the first day. Unfortunately during the next 4 days, the number of views decreased by 30% every day. How many views were there on the 5th day?					
	Circle One:	Arithmetic	Geometric		Formula:	
						960 views
4.	A culture of bacteria doubles every hour. If there are 300 bacteria at the beginning, how many bacteria will there be after 10 hours?					
	Circle One:	Arithmetic (Geometric		Formula:	·
						307200 bacteria

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Simplify.

5.
$$5(3)^2 - 7(3) - 4$$

20

6.
$$-2(1)^2 + 8(1) + 7$$

13

7.
$$3(-2)^2 + 4(-2) - 9$$

-5

$$8.^{\circ} -2(-1)^2 + 8(-1) + 7$$

_3

Solve. Be sure to show your work.

9.
$$4(x+2)-3(x+1) = -2(x+2)$$

$$X = -3$$

$$10. -4(x-9) = -5(x-3) + 7(x-1) - 2$$

$$\chi = 5$$

11.
$$2(x+2) - 3(x-3) = 5(x+3) - 2(x+1)$$

$$X = 0$$