ħ. 11	1 R	Review Name
avancea	ALGE	bra Spring 2009
Arithmatia	1.	Find the n^{th} term if, $a_1 = -20$, $d = 7$, and $n = 21$
Sequence $a_n = a_1 + d(n-1)$	2.	Find a ₂₅ for -9, -6, -3,
	3.	Find the missing terms in the arithmetic sequence
		40,,,,100.
Arithmetic Series $\int_{n} = \frac{n}{2}(a_{1} + a_{n})$	4.	Find S_{11} for: $a_1 = 21$, and $a_{11} = 2$
	5.	Find the first three terms of: $a_{15} = 243$ and
		$S_{15} = 1860.$,,
	6.	A Pile of fireplace logs at the Garden Shop has 15 log
		on the top layer, 16 logs in the next layer, and so on
		The pile contains 15 layers.
		How many logs are in the pile?

9. Find the missing geometric means in:

_____,-14,_____,4802.

	10. Find the sum of the geometric series with:
Geometric Series	$a_1 = 9$, $a_6 = 9216$ and $r = 4$.
$\int_{n} = \frac{a_{1}(1-r^{n})}{1-r}$	11. Find the sum of the geometric series with:
	$a_1 = 150, r = 2 and n = 7.$
	12. Find a_1 for: $S_9 = 513$, $r = -2$.
Infinite	
Geometric Series $\int = \frac{a_1}{1-r}, -1 < r < 1$	13. Find the sum of: 16 + 8 + 4 +
	14. Find the sum of: 16 + 24 + 36 +
	15. Find the sum of: 25 – 15 + 9

16. Evaluate:
$$\sum_{x=1}^{8} 3x^2 + 5$$
. _____.

17. Evaluate:
$$\sum_{n=1}^{5} 3(2^{n-1})$$
.

18. Find the 8^{th} term in the series of: $\sum_{m=1}^{20} -x + 21$.

- 19. If $(x+y)^{12}$ is expanded, what is the exponent on 'x' in the term that contains y^7 ?_____.
- 20. Expand $(4s-2t)^5$.

21. Expand $(3+w)^7$