

Summations – Day 2

Unit 7: Representations of Exponential Relations

Evaluate the related series of each sequence.

1. $-3, -6, -12, -24$	2. $-4, 12, -36, 108$
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Evaluate each geometric series described.

3. $2 - 12 + 72 - 432 \dots, n = 6$	4. $1 - 5 + 25 - 125 \dots, n = 7$
5. $\sum_{m=1}^{10} 4^{m-1}$	6. $\sum_{n=1}^9 4^{n-1}$
7. $\sum_{k=1}^7 (-6)^{k-1}$	8. $\sum_{k=1}^{10} -2^{k-1}$
9. $a_1 = -4, a_n = -186624, r = 6$	10. $a_1 = -2, a_n = -32768, r = 4$

Evaluate each geometric series described.

11. $a_1 = -4, a_n = -262144, r = -4$

12. $a_1 = 2, a_n = 524288, r = 4$

13. $a_1 = 2, a_7 = 1458, r = 3$

14. $a_1 = 2, a_{10} = 39366, r = 3$

15. $a_1 = 2, a_7 = 93312, r = 6$

16. $a_1 = 1, a_7 = 4096, r = 4$

17. $a_1 = 4, r = 3, n = 8$

18. $a_1 = -4, r = -2, n = 8$

19. $a_1 = -4, r = 4, n = 8$

20. $a_1 = 1, r = -3, n = 10$