Name:

Date:

Finite Geometric Series

Evaluate the geometric series described.

1) $\sum_{n=1}^{8} 2.(-2)^{n-1}$

Evaluate the related series of each sequence.

2) $2, 12, 72, 432$

3) $-1, 5, -25, 125$

4) $-1, 4, -16, 64$

5) $-2, 6, -18, 54, -162$

Evaluate each geometric series described.

6) $\sum_{n=1}^{10} 4.(-3)^{n-1}$

7) $-2 - 6 - 18 - 54 \ldots, n = 9$

8) $2 - 10 + 50 - 250 \ldots, n = 8$

9) $\sum_{m=1}^{9} -2^{m-1}$

10) $1 - 4 + 16 - 64 \ldots, n = 9$

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1) $\sum_{n=1}^{8} 2.(-2)^{n-1}$

– 170

2) $2, 12, 72, 432$

518

3) $-1, 5, -25, 125$

104

4) $-1, 4, -16, 64$

51

5) $-2, 6, -18, 54, -162$

– 122

6) $\sum_{n=1}^{10} 4.(-3)^{n-1}$

– 59048

7) $-2 - 6 - 18 - 54 \ldots, n = 9$

– 19682

8) $2 - 10 + 50 - 250 \ldots, n = 8$

– 130208

9) $\sum_{m=1}^{9} -2^{m-1}$

– 511

10) $1 - 4 + 16 - 64 \ldots, n = 9$

52429