

Name: _____

Date: _____

Finite Geometric Series**Evaluate the geometric series described.**

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

**Evaluate the related series of each sequence.**

2) 2, 12, 72, 432

3) -1, 5, -25, 125

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

4) -1, 4, -16, 64

**Evaluate each geometric series described.**

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

7) -2 - 6 - 18 - 54 ..., n = 9

8) 2 - 10 + 50 - 250 ..., n = 8

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

10) 1 - 4 + 16 - 64 ..., n = 9





Scan me
for more
PRACTICE

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

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

- 59048

7) - 2 - 6 - 18 - 54 ... , n = 9

- 19682

8) 2 - 10 + 50 - 250 ... , n = 8

- 130208

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

- 511

10) 1 - 4 + 16 - 64 ... , n = 9

52429