Name : _____

## Evaluate: Geometric Series

Evaluate each geometric series.

1)   $a_1 = -10, r = -6, n = 7$

2)   $\displaystyle\sum_{k=1}^{15} (6 \cdot 2^{k-1})$

3)   $8 + 88 + 968$ ... $= -4, n = 9$

5)   $\displaystyle\sum_{m=1}^{6} \left(\frac{3}{4}\right)^m$ ... $- 108 - ... - 26244$

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7)   $\sqrt{11} + 2\sqrt{11} + 4\sqrt{11} + ... + 16\sqrt{11}$

8)   $a_1 = \dfrac{6}{5}, r = -\dfrac{1}{3}, n = 10$