

## Geometric Series

Determine the number of terms(n) in each geometric series.

$$1) \sum_{d=1}^n (\sqrt{15} \cdot (-3)^d) = -132861\sqrt{15}$$

$$2) \sum_{m=1}^n (-7 \cdot (-2)^{m+1}) = -76468$$

$$3) \sum_{p=1}^n \left(\frac{1}{2} \cdot 6^{p-1}\right)$$

$$(-4)^{w-1} = 566230.5$$

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$$5) \sum_{c=1}^n 9^{c+1} = 50$$

$$= 402234$$

$$7) \sum_{f=1}^n (3 \cdot 8^{f-1}) = 7190235$$

$$8) \sum_{g=1}^n (-4)^g = -209716$$