

Name: _____

T2S1

Geometric Series

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

1) $\sum_{k=1}^n (5 \cdot 2^{k-1}) = 163835$

2) $\sum_{c=1}^n (-6 \cdot (-3)^c) = -265716$

3) $\sum_{z=1}^n (-8 \cdot 5^{z+1})$

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5) $\sum_{d=1}^n (-1.6 \cdot (-$

$2)^d) = \frac{4095}{2}$

7) $\sum_{q=1}^n (\sqrt{5})^q = 19531\sqrt{5} + 19530$

8) $\sum_{w=1}^n (-9)^{w+1} = 478305$

Geometric Series

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

$$1) \sum_{k=1}^n (5 \cdot 2^{k-1}) = 163835$$

n = 15

$$2) \sum_{c=1}^n (-6 \cdot (-3)^c) = -265716$$

n = 10

$$3) \sum_{z=1}^n (-8 \cdot 5^{z+1})$$

n =

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= 9

$$5) \sum_{d=1}^n (-1.6 \cdot (-2)^d)$$

n =

$$2)^f) = \frac{4095}{2}$$

= 12

$$7) \sum_{q=1}^n (\sqrt{5})^q = 19531\sqrt{5} + 19530$$

n = 13

$$8) \sum_{w=1}^n (-9)^{w+1} = 478305$$

n = 5