

Unit 5 Day 12 Warm Up

Evaluate each geometric series described.

1) $\sum_{i=1}^9 (-4)^{i-1}$

2) $\sum_{n=1}^8 4 \cdot 5^{n-1}$

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

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

Determine if each geometric series converges or diverges.

5) $-9.3 - 10.23 - 11.253 - 12.3783\dots$

6) $64 - 32 + 16 - 8\dots$

7) $4 + 12 + 36 + 108\dots$

8) $2.1 - 1.26 + 0.756 - 0.4536\dots$

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Evaluate each geometric series described.

1) $\sum_{i=1}^9 (-4)^{i-1}$

52429

2) $\sum_{n=1}^8 4 \cdot 5^{n-1}$

390624

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

-209715

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

-195312

Determine if each geometric series converges or diverges.

5) $-9.3 - 10.23 - 11.253 - 12.3783\dots$

Diverges

6) $64 - 32 + 16 - 8\dots$

Converges

7) $4 + 12 + 36 + 108\dots$

Diverges

8) $2.1 - 1.26 + 0.756 - 0.4536\dots$

Converges