

Intermediate Algebra Skill

Finding the Sum of the First n Terms of an Geometric Series

Find the sum of the first n terms given in the following Geometric Series:

1) $1+3+9+27\dots$, $n=7$

2) $3-12+48-192\dots$, $n=7$

3) $2-4+8-16\dots$, $n=9$

4) $-1-4-16-64\dots$, $n=8$

5) $3-9+27-81\dots$, $n=6$

6) $-2+6-18+54\dots$, $n=6$

7) $-2+8-32+128\dots$, $n=8$

8) $-3+15-75+375\dots$, $n=6$

9) $-1-5-25-125\dots$, $n=9$

10) $-1-2-4-8\dots$, $n=7$

Answers to Finding the Sum of the First n Terms of an Geometric Series

1) 1093

2) 9831

3) 342

4) -21845

5) -546

6) 364

7) 26214

8) 7812

9) -488281

10) -127