

***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