Geometric Series – Extra Practice

1. For each geometric series, determine and r. Then, determine the indicated sum. Give your answer as exact values.   
   a) b)   
     
     
     
     
   c) d)
2. What is the value of for each of the following geometric series?  
   a) b)
3. Calculate the following sums :  
   a) 960 + 480 + 240 + … + 15 b)   
     
     
     
     
   c) 27 + 9 + 3 + … + d)
4. Determine the number of terms in each of the following geometric series:  
   a) 7 971 615 + 5 314 410 + 3 542 940 + … + 92 160.  
     
     
     
   b)