(5)   For the geometric sequence $\{S_n\}$:

   $-1, 7, -49, 343, ...$

   that starts with an initial index of 0

a) what is the initial term?

b) what is the common ratio?

c) Find S_4

d) Find S_{32}

(6)   Find $\displaystyle\sum_{j=0}^{3} (j+3)^2$

(7)   Find $\displaystyle\sum_{i=-3}^{2} (2i+5)$

(8)   pull out the last term from the summation

   $\displaystyle\sum_{i=0}^{1000} (-1)^i$

(9)   pull out the last term from the summation

   $\displaystyle\sum_{j=-3}^{k+4} 3^{j-3}$

(10)   change the summation $\displaystyle\sum_{i=-5}^{30} i^4$ so that

   the lower limit is 1 (not -5).