Assignment 5 Part 2 <u>5.1:</u> 21, 60

Thursday, February 2, 2017 11:43 PM

21.
$$\sum_{M=6}^{3} \frac{1}{2^{M}} = \frac{1}{2^{0}} + \frac{1}{2^{1}} + \frac{1}{2^{2}} + \frac{1}{2^{3}} = 1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \boxed{\frac{15}{8}}$$

$$\frac{7}{6} + \frac{4}{5} + \frac{2}{6} + \frac{1}{8}$$

Compute Summutation.

60. n
$$N$$

$$2 \leq (3k^2+4)+5 \leq (2k^2-1)$$
Write as a single summutation N

$$K=1$$

$$= \sum_{k=1}^{N} (6k^{2}+8) + \sum_{k=1}^{N} (16k^{2}-1)$$

$$= \sum_{k=1}^{k=1} (6k^2 + 8) + (10k^2 - 1)$$

$$= \sum_{k=1}^{n} \left(\left| \left(\left| k^{2} + 3 \right| \right) \right|$$