Assignment 4 Part 2

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5.1 21 $\sum_{m=0}^{3} \frac{1}{2^m}$ $= \frac{1}{2^0} + \frac{1}{2^1} + \frac{1}{2^2} + \frac{1}{2^3}$

$\frac{1}{1} + \frac{1}{2} + \frac{1}{4} + \frac{1}{8}$

$1 + \frac{4}{8} + \frac{2}{8} + \frac{1}{8} = 1\frac{7}{8}$

5.1 60 $2 \cdot \sum_{k=1}^{n} (3k^2+4) + 5 \sum_{k=1}^{n} (2k^2 - 1)$

$\sum_{k=1}^{n} 2(3k^2+4) + \sum_{k=1}^{n} 5 \cdot (2k^2 - 1)$

$\sum_{k=1}^{n} 6k^2 + 8 + 10k^2 - 5$

$\sum_{k=1}^{n} (16k^2 + 3)$