

1) Reindex the following summation to start at $i = 0$.

$$\sum_{i=4}^{n-2} 3^i$$

$$\sum_{i=4}^{n-2} 3^i = 3^4 + 3^5 + 3^6 + \dots + 3^{n-2} = \sum_{j=0}^{n-6} 3^{j+4}$$

2) List all strings of length 2 that are members of $\{a, b, c\}^*$

"aa"

"ab"

"ac"

"ba"

"bb"

"bc"

"ca"

"cb"

"cc"