

Summations Worksheet

Name: _____

Evaluate each of the following sums.

1. $\sum_{i=3}^{n+1} 1$

2. $\sum_{i=1}^n i$

3. $\sum_{i=30}^{n+10} i$

4. $\sum_{i=0}^n 5^i$

$$5. \sum_{i=1}^n i(i+1)$$

$$6. \sum_{i=1}^n \sum_{j=1}^n ij$$

$$7. \sum_{i=0}^{\log_2 n} \binom{n}{2^i}$$