

CHAPTER 6 - SIGMA NOTATION

TI-84 Plus

To evaluate $\sum_{k=1}^7 (k + 1)$, press **2nd** **STAT** (LIST) **►** **5:seq**(, then press **X,T,θ,n** **+** **1** **,** **X,T,θ,n** **,** **1** **,** **7** **,** **1** **)** **ENTER**. This generates the sequence of numbers of the form $x + 1$, where x is from 1 to 7 with a step size of 1.

```
seq(X+1,X,1,7,1)
(2 3 4 5 6 7 8)
```

To find the sum of these values, press **2nd** **STAT** (LIST) **◀** **5:sum**(**2nd** **(-)** (ANS) **)** **ENTER**.

```
seq(X+1,X,1,7,1)
(2 3 4 5 6 7 8)
sum(Ans)
35
```

So, $\sum_{k=1}^7 (k + 1) = 35$.