

**Exercise 5**

Suppose that  $\sum_{i=1}^{100} a_i = 15$  and  $\sum_{i=1}^{100} b_i = -12$ . In the following exercises, compute the sums.

$$\sum_{i=1}^{100} (a_i - b_i)$$

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**Solution**

$$\begin{aligned}\sum_{i=1}^{100} (a_i - b_i) &= \sum_{i=1}^{100} a_i - \sum_{i=1}^{100} b_i \\ &= (15) - (-12) \\ &= 27\end{aligned}$$