

**2.IR3 Simplifying Algebraic Expressions; Summation Notation**  
**Objective 5 Summation Notation**

Review the material covered on pages IR-88 through IR-89 in the Integrated Review text. Then, complete the following.

1. Evaluate the sum

$$\sum_{i=1}^5 (4i + 3)$$

1. \_\_\_\_\_

2. Evaluate the sum

$$\sum_{i=1}^4 \frac{(4i - 10)^2}{4}$$

2. \_\_\_\_\_

3. Evaluate the sum

$$\frac{\sum_{i=1}^8 (5i - 2)}{8}$$

3. \_\_\_\_\_

4. For  $x_1 = 3, x_2 = 7, x_3 = 5, x_4 = 8$  find:

a.  $\sum x_i$

4a. \_\_\_\_\_

b.  $\frac{\sum x_i}{4}$

4b. \_\_\_\_\_

