

Extra Practice

Exercise

Evaluate the following:

$$1. \sum_{r=11}^{14} r^2$$

$$2. \sum_{n=3}^7 n(n+2)$$

$$3. \sum_{i=1}^5 3i$$

$$4. \sum_{k=0}^4 \frac{k^4}{2}$$

$$5. \sum_{r=2}^6 \frac{1}{2} r(r+3)$$

$$6. \sum_{k=1}^4 (k+1)(k+2)$$

(Answers: 630, 185, 45, 177, 75, 68)

Exercise

Evaluate the following if $x_1 = 2$, $x_2 = 4$, $x_3 = -1$,
 $x_4 = 5$, $y_1 = 1$, $y_2 = 6$, $y_3 = 3$ and $y_4 = -2$

$$1. \sum_{i=1}^4 x_i$$

$$2. \sum_{i=1}^4 y_i$$

$$3. \sum_{i=2}^4 x_i y_i$$

$$4. \sum_{k=1}^2 y_k^2$$

$$5. \sum_{j=2}^4 x_{j-1} y_j$$

$$6. \sum_{i=1}^3 x_i x_{i+1}$$

$$7. \sum_{i=1}^4 (y_i^3 - 1)$$

$$8. \sum_{i=1}^4 x_i \sum_{j=1}^2 y_j$$

(Answers: 10, 8, 11, 37, 26, -1, 232, 70)