

Shawkah school for boys

Lesson 4.2
SUMS AND SIGMA NOTATION

Write in summation notation

a) $\sqrt{1} + \sqrt{2} + \sqrt{3} + \dots + \sqrt{10}$

$$\sum_{i=0}^{10} i$$

$$\sum_{i=1}^{10} i$$

$$\sum_{i=0}^{10} (i + 1)$$

Write in summation notation:

the sum of the **first 200 odd** positive integers.

$$\sum_{i=1}^{200} 2i - 1$$

$$\sum_{i=0}^{200} 2i + 1$$

$$\sum_{i=1}^{200} 2i$$

compute the sums

$$\sum_{i=1}^8 (2i + 1)$$

70

90

80

Find $\int x^{\frac{1}{4}} (x^{\frac{5}{4}} - 4) dx$

$$\frac{2}{5} \sqrt{x^5} - \frac{16}{5} \sqrt[4]{x^5}$$

$$\frac{2}{5} \sqrt{x^5} - \frac{16}{5} \sqrt[4]{x^5} + c$$

$$\frac{2}{5} \sqrt{x^5} - \frac{16}{5} \sqrt[5]{x^4}$$