

Write the series in summation notation.

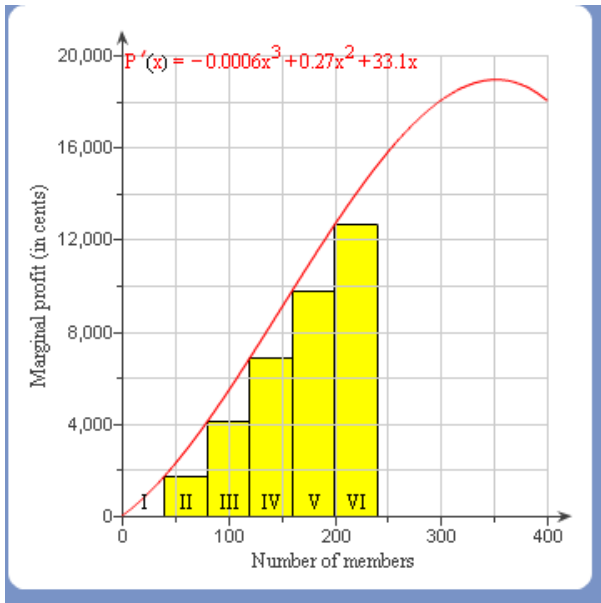
$$2 + 4 + 6 + 8 + 10 + 12$$

$$\sum_{i=1}^6 2i$$

Express $\sum_{i=5}^8 4^i$ without using summation notation.

$$4^5 + 4^6 + 4^7 + 4^8$$

A record club has found that the marginal profit, $P'(x)$, in cents, is given by $P'(x) = -0.0006x^3 + 0.27x^2 + 33.1x$ for $x \leq 400$, where x is the number of members currently enrolled in the club. Approximate the total profit when 240 members are enrolled by computing the sum $\sum_{i=1}^6 P'(x_i) \Delta x$ with $\Delta x = 40$.



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P1w1 P1w2 P1w3
/V1B-.0006X^3+.2
7X^2+33.1X
/V2=
/V3=
/V4=
/V5=
/V6=

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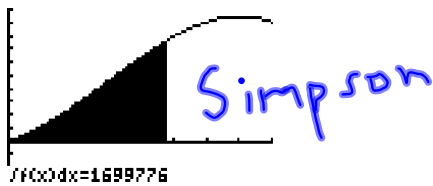
PRGMAREA

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L,R OR M
?L
A=?0
B=?240
N=?6

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1399200
Done



Use geometry to evaluate the definite integral.

$$\int_0^2 4 \, dx = 4x \Big|_0^2 = 4(2) - 4(0) = 8$$

