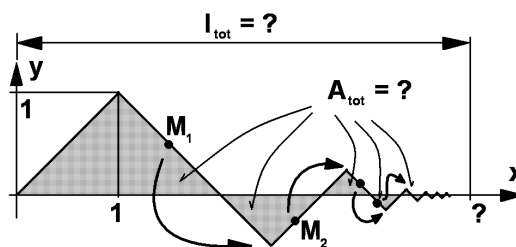


Probl. 1 $A_{tot} = ?$, $l_{tot} = ?$

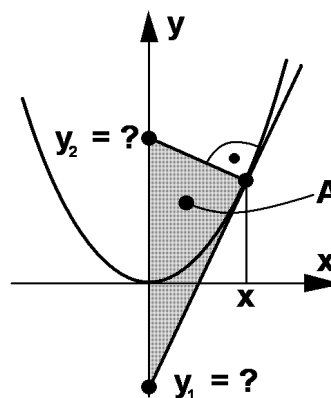


Probl. 2 $\lim_{n \rightarrow \infty} \frac{n \cdot \cos(2n) - \sin(n^2) + 8n^2 - 4n + 5}{2n^2 + 4n - 5 \sin(n)} = ?$

Probl. 3 $y = f(x) = x^2$

(a) $x = 1 \rightsquigarrow A(x) = ?$

(b) $x = \text{var.} \rightsquigarrow A(x) = ?$

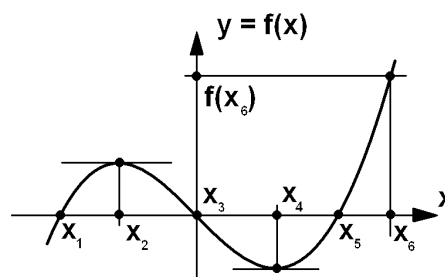


Probl. 4 $f(x) = a \cdot (x - x_1)(x - x_3)(x - x_5)$

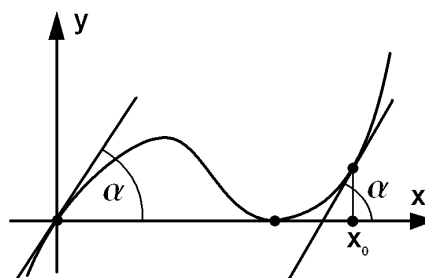
$$x_1 = -2, \quad x_3 = 0, \quad x_5 = 2$$

$$x_6 = 4, \quad f(x_6) = 48$$

$$x_2 = ? , \quad x = 4 = ?$$



Probl. 5 $f(x) = x^3 - 2x^2 + 4$
 $f'(0) = ?$, $\alpha = ?$, $x_0 = ?$



Probl. 6 $\rightsquigarrow$

Probl. 6 $y = f(x) = -x^2 + 4$

(a) $\alpha = ?$

(b) $A = ?$

