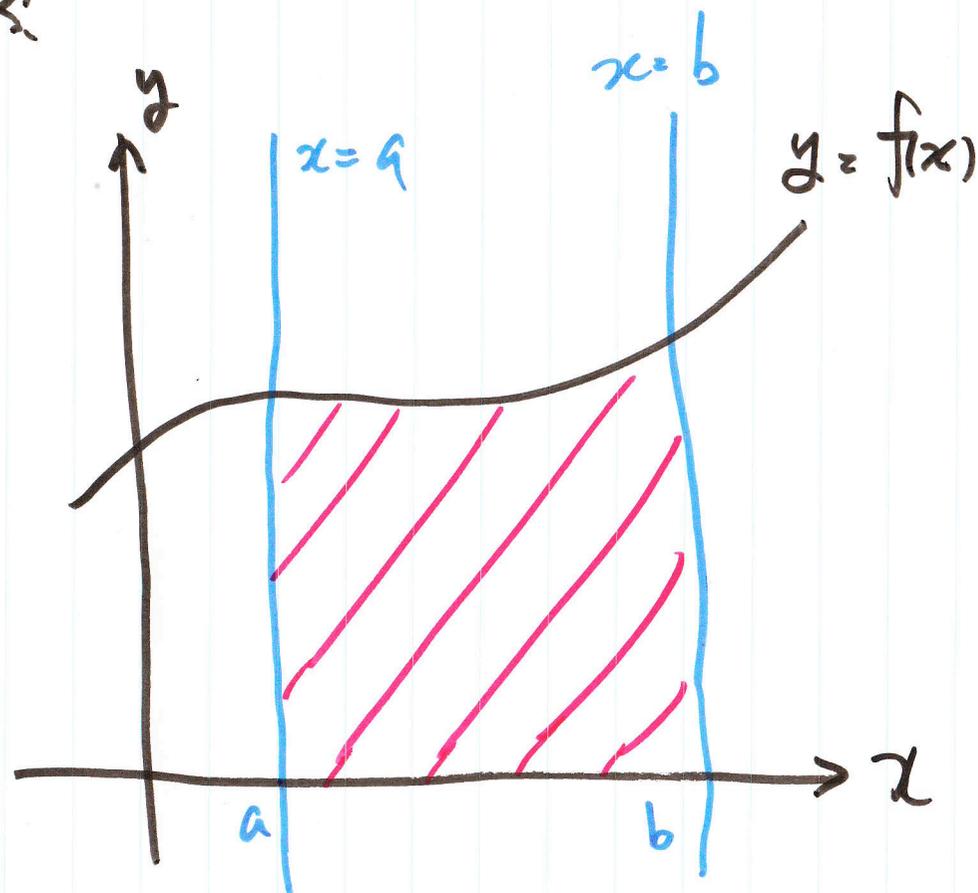


求積法

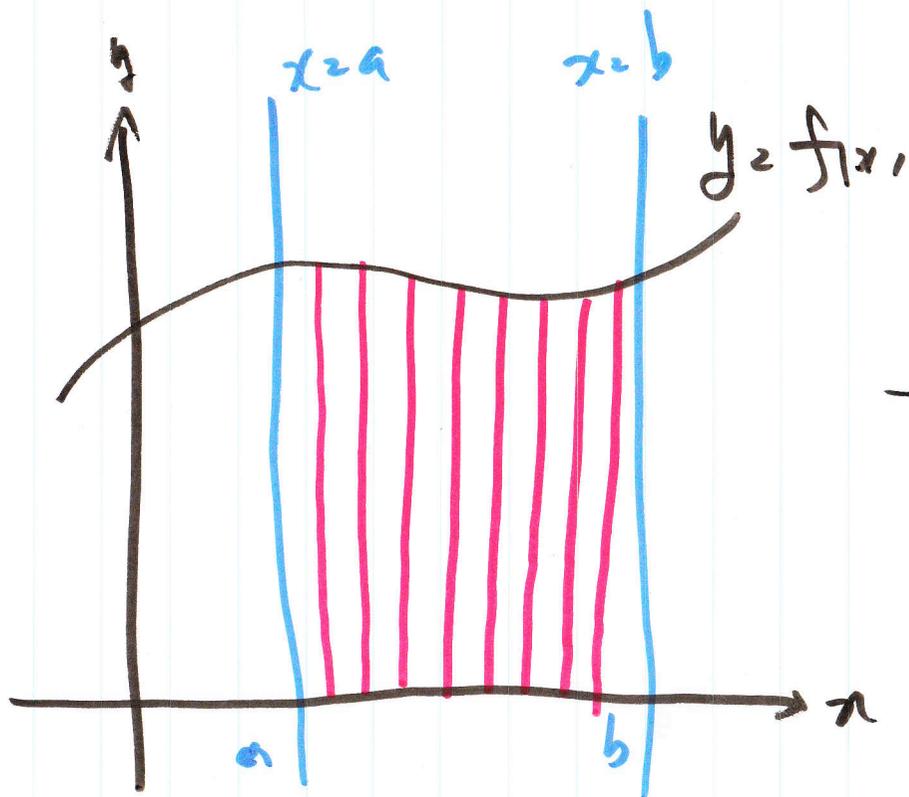
$y = f(x)$ と直線 $x = a$, $x = b$, x 軸 x
囲まれる部分の面積

$$\int_a^b f(x) dx$$

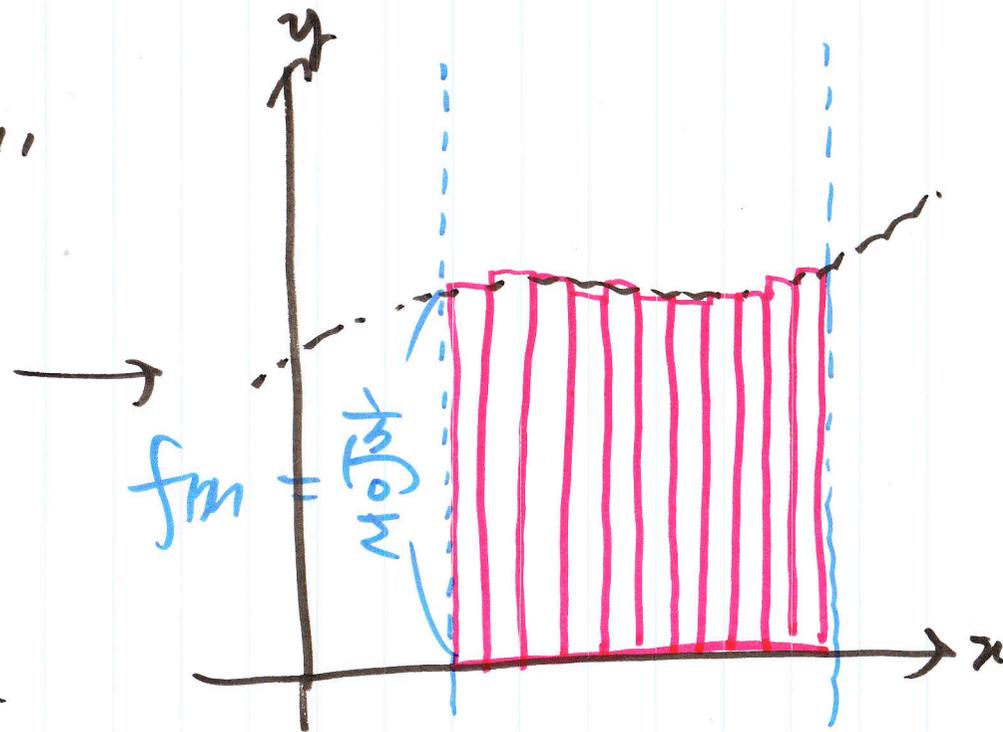
a から b までの
定積分



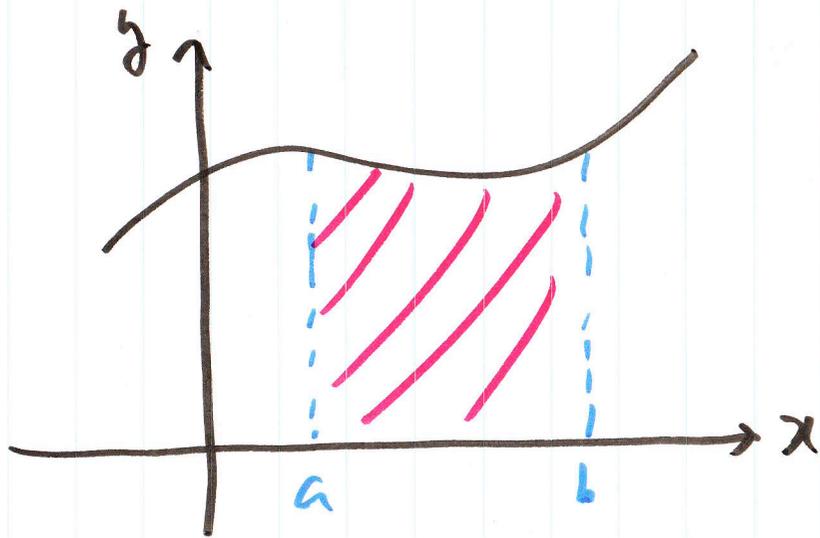
$\int_a^b f(x) dx$: 符号, 面積
+, -



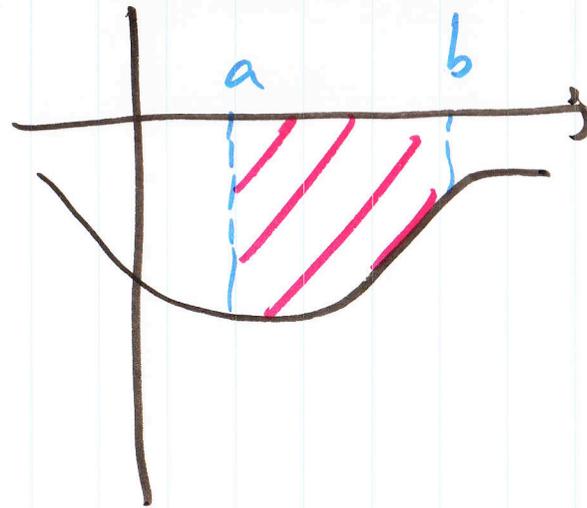
二次分割



面積 = 長方形の
面積の和



$$\int_a^b f(x) dx > 0$$



$$\int_a^b f(x) dx < 0$$

“斜線部の
面積は”と
問中と同じ”

面積は

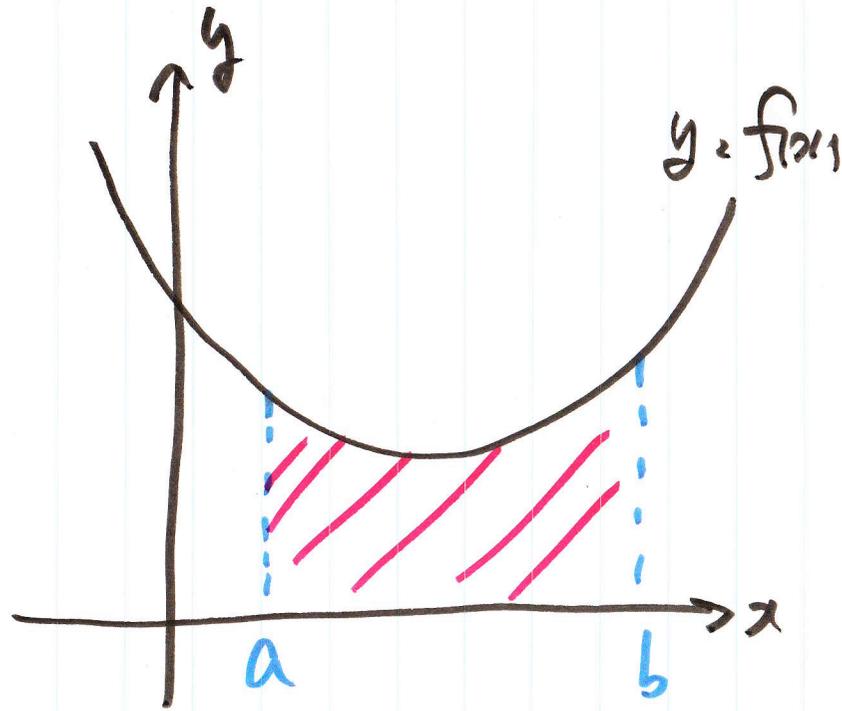
$$\int_a^b f(x) dx$$

面積は

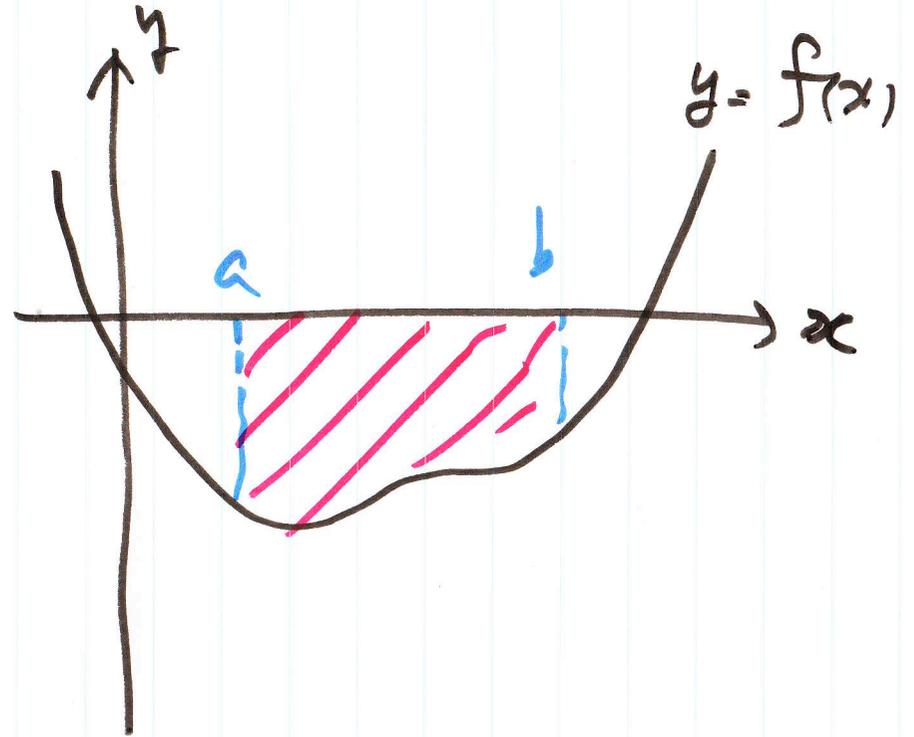
$$-\int_a^b f(x) dx$$

問題

斜線部の面積を
定積分の形で表せ.

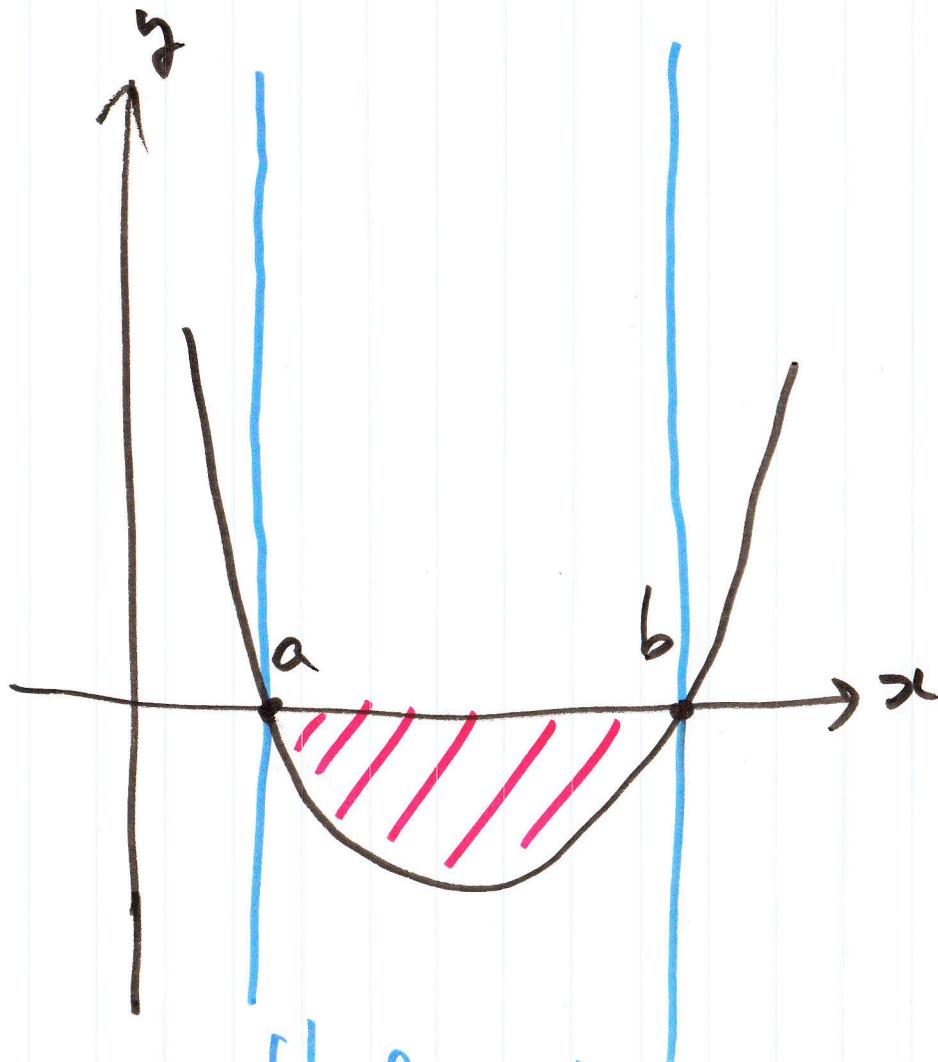


$$\int_a^b f(x) dx$$

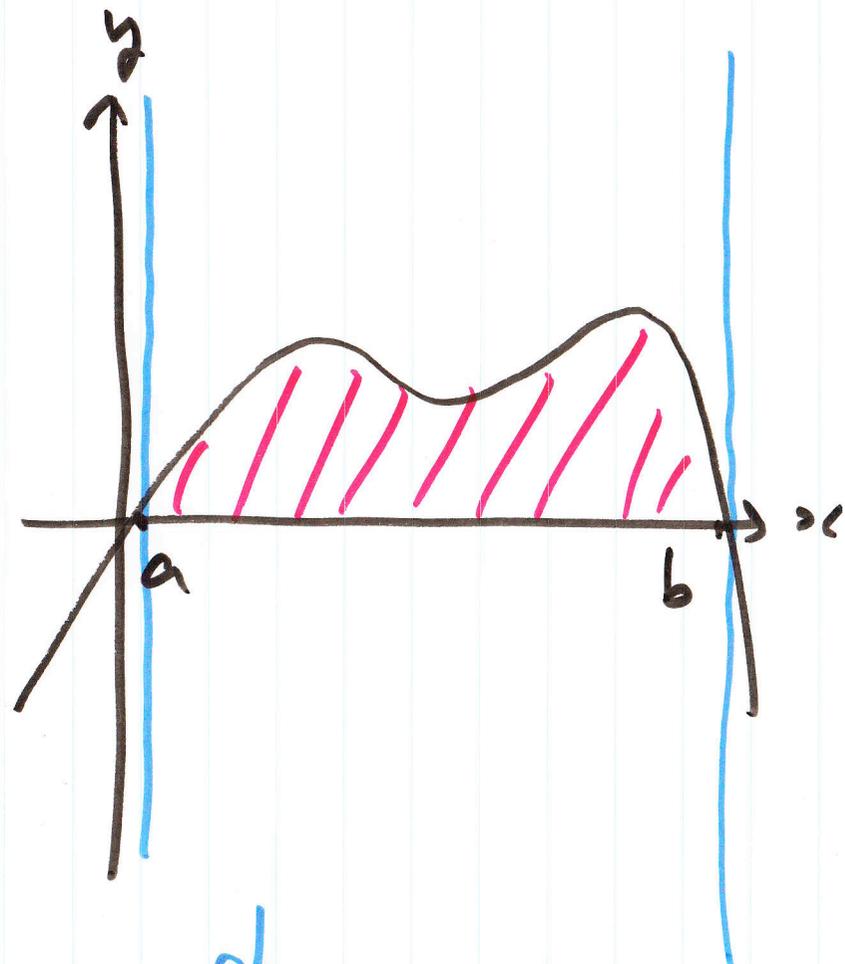


$$-\int_a^b f(x) dx$$

x 軸との交点は, $x = a, b$

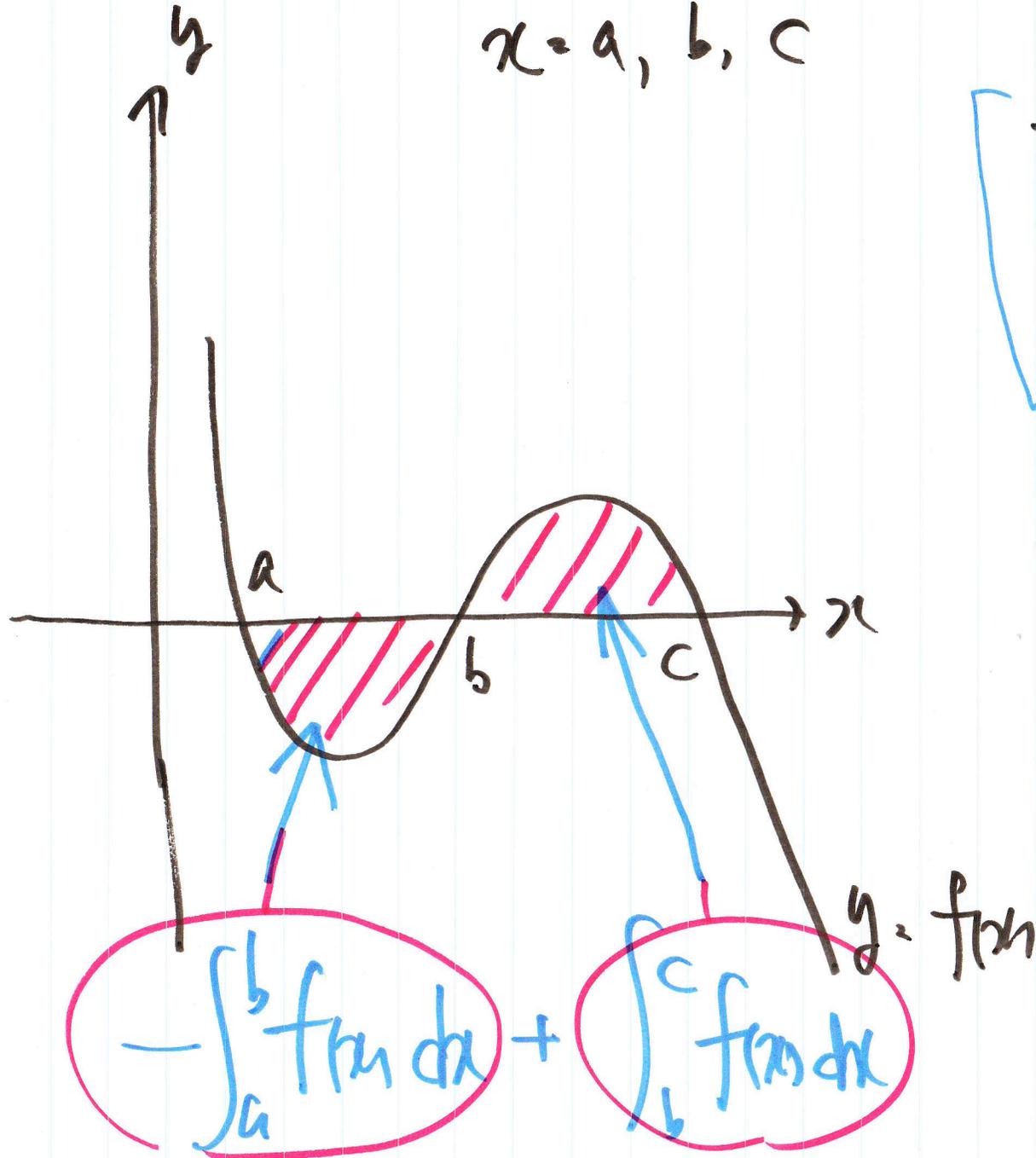


$$-\int_a^b f(x) dx$$



$$\int_a^b f(x) dx$$

x軸との交点は
 $x = a, b, c$



Q. $y = f(x)$ と x 軸
で囲まれた部分
の面積を求めよ

グラフの概形を
同一心算で求めよ
よ