20240226作业

1. 设$f(x) \in R[a,b]$, 且 $\forall [\alpha,\beta] \subset [a,b]$, $\exists x', x'' \in [\alpha,\beta]$ s.t. $f(x')f(x'') \leqslant 0$.
   计算$\int_a^b f(x)\,\mathrm{d}x$的值.

2. 设$f(x)$定义在$[a,b]$上, $c \in (a,b)$. 则$f(x) \in BV[a,b]$
   $\Leftrightarrow$ $f(x) \in BV[a,c]$, $f(x) \in BV[c,b]$; 并且有$\bigvee_a^b f(x) = \bigvee_a^c f(x) + \bigvee_c^b f(x)$.