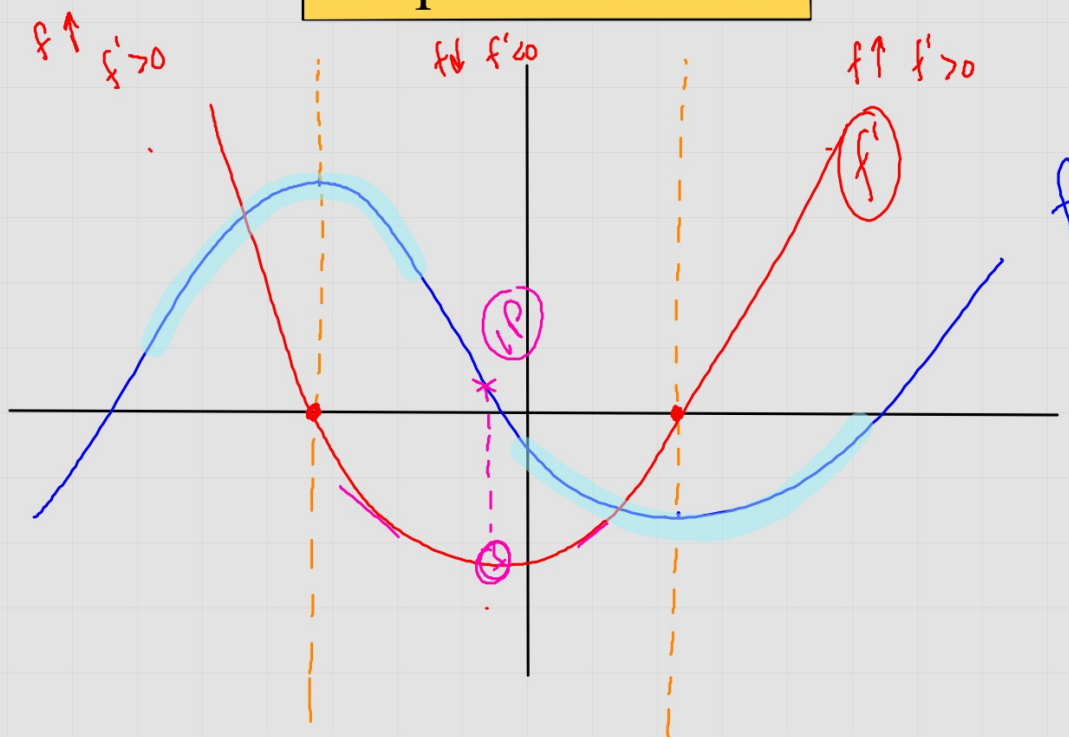
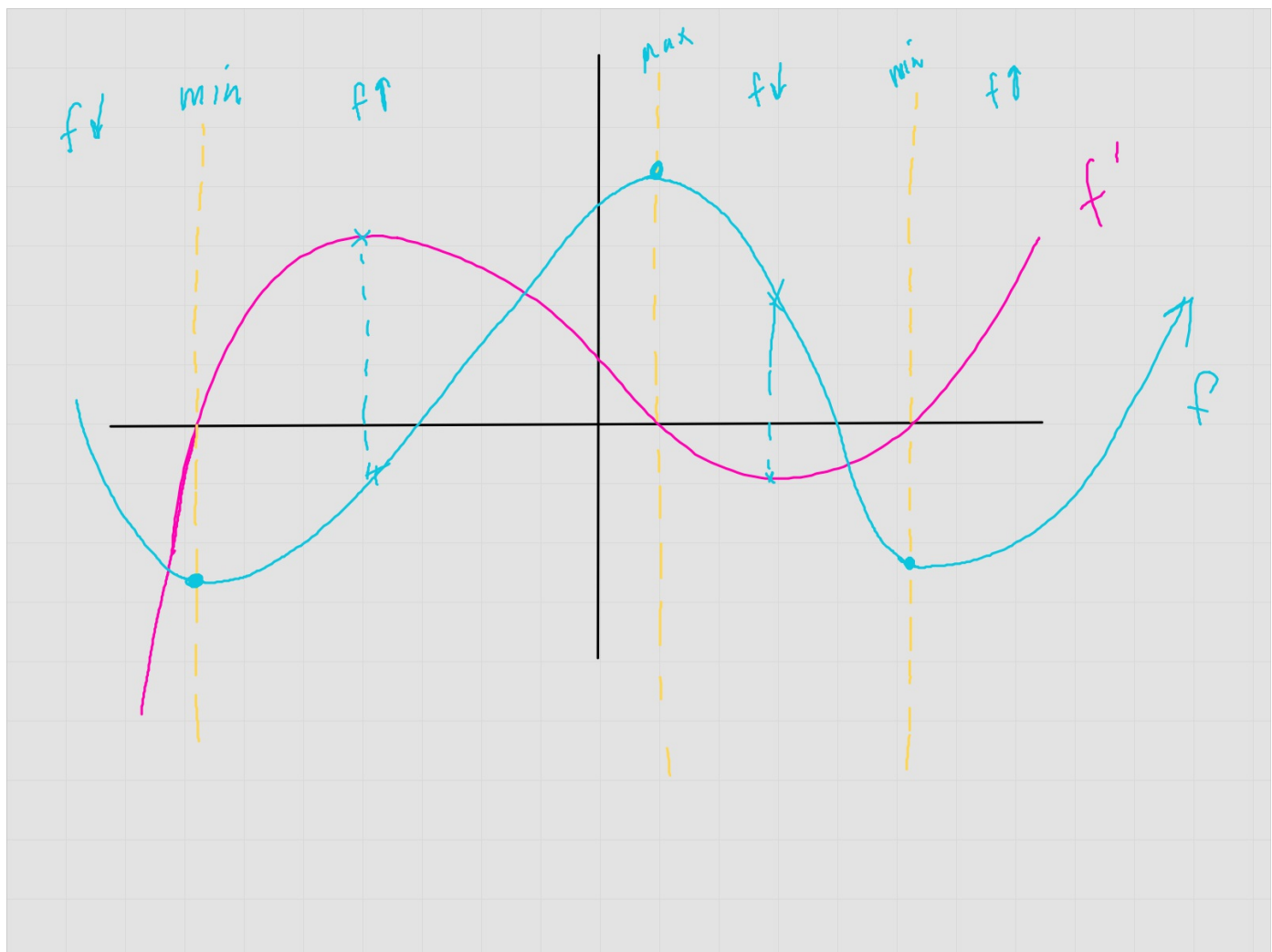
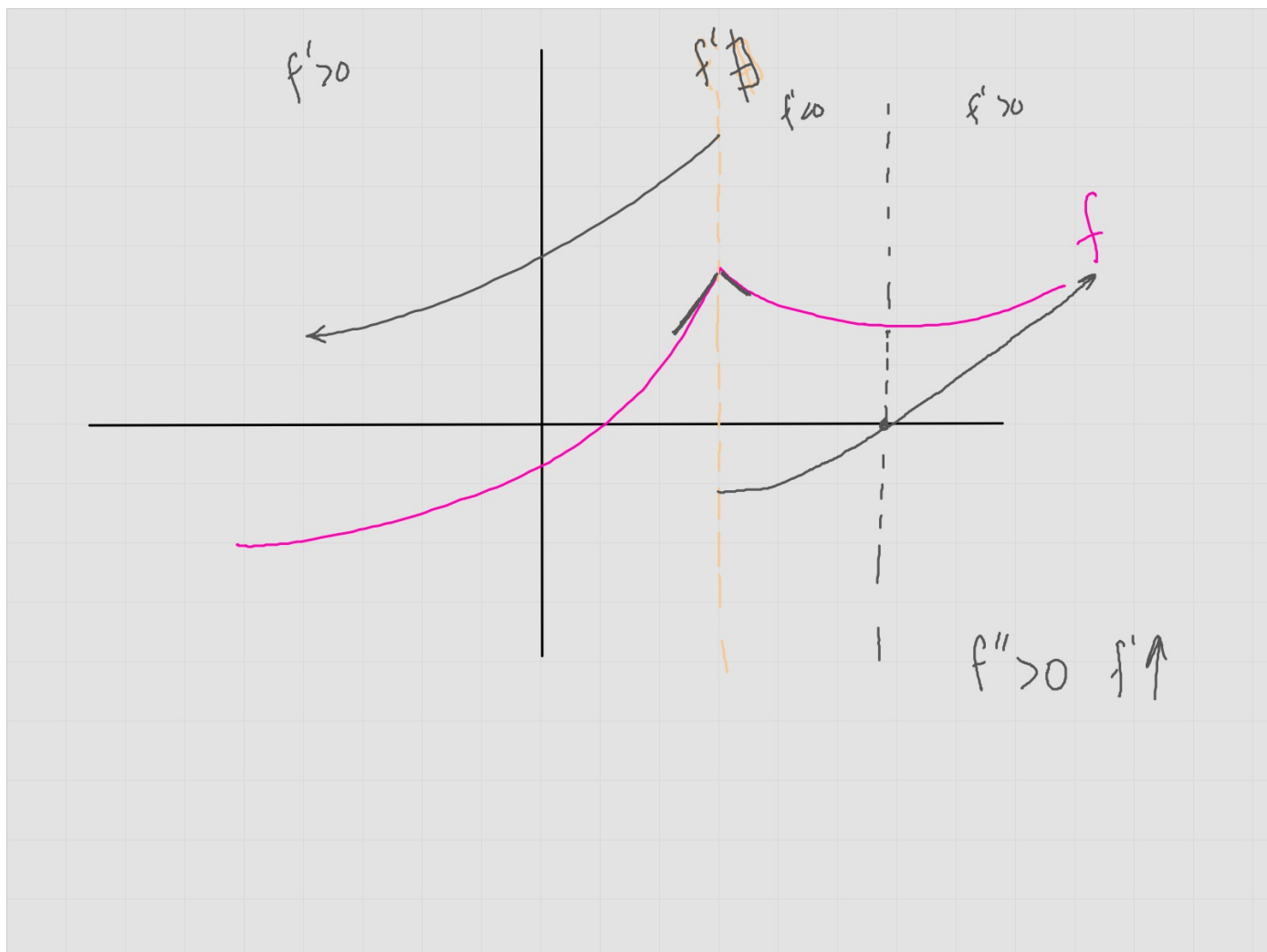
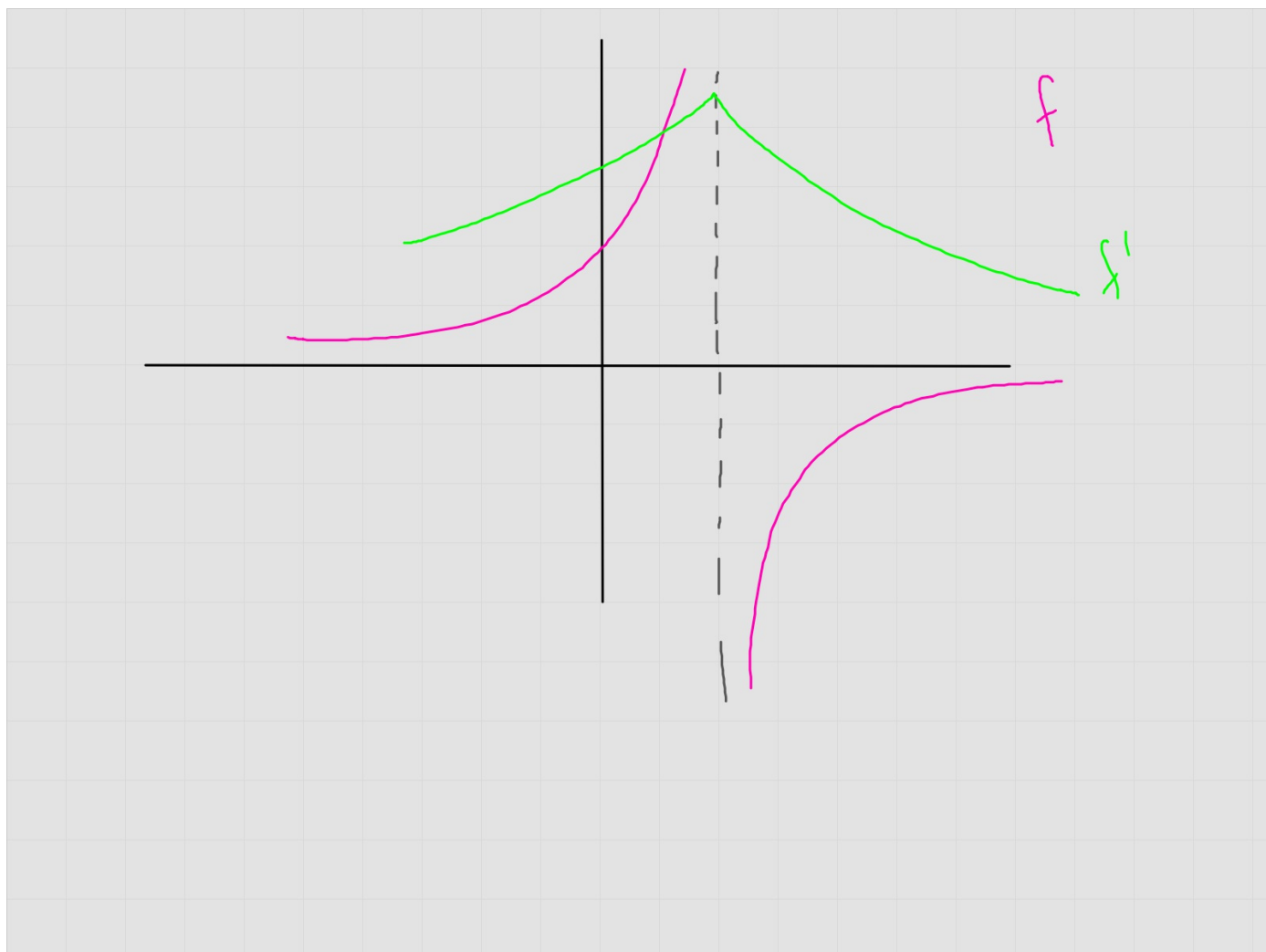


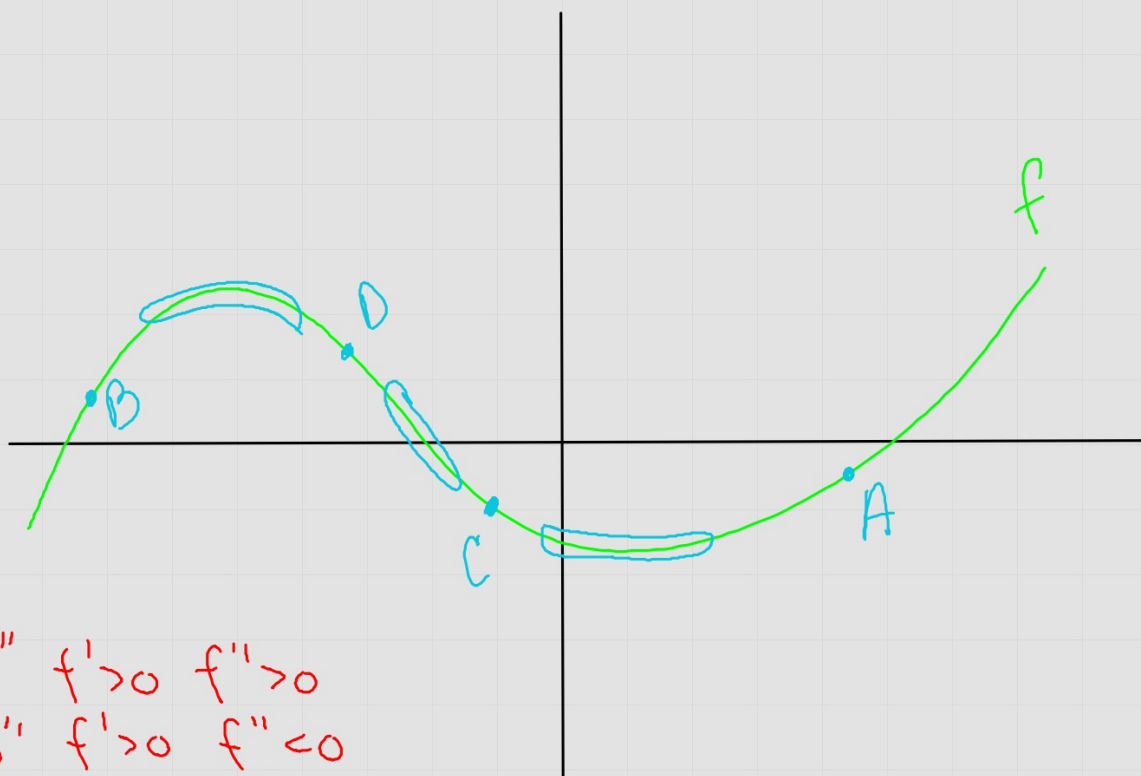
Graphs of f and f'











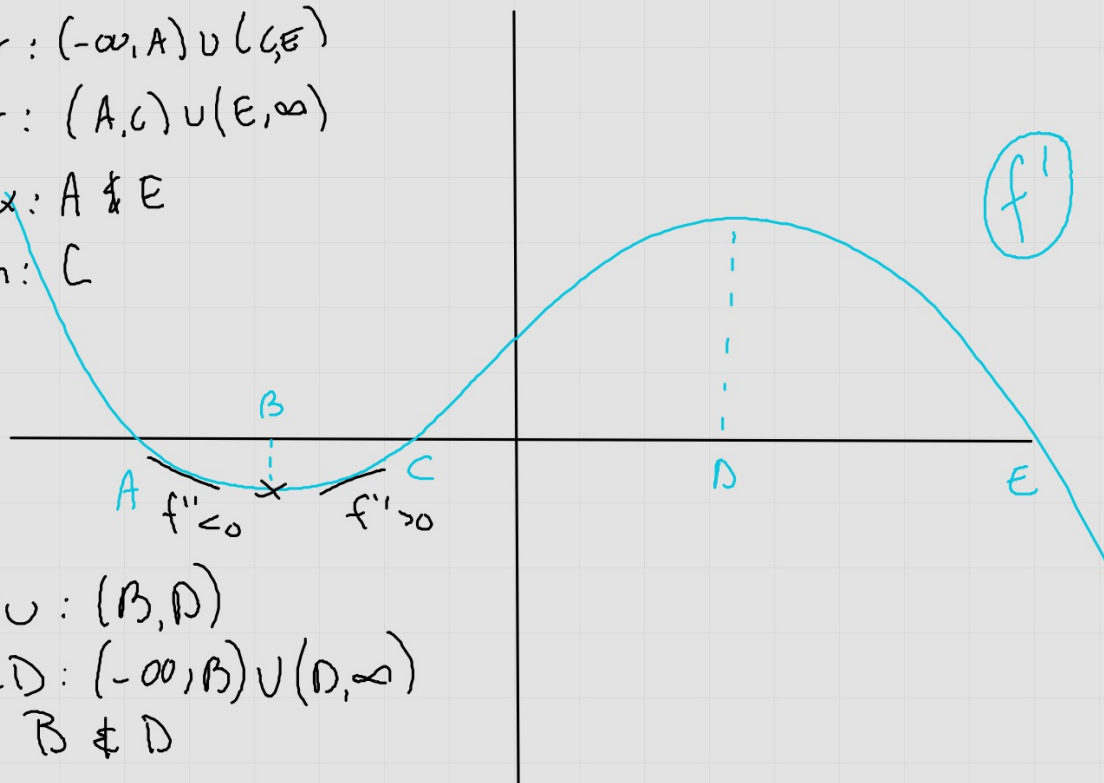
"A" $f' > 0$ $f'' > 0$
 "B" $f' > 0$ $f'' < 0$
 "C" $f' < 0$ $f'' > 0$
 "D" $f' < 0$ $f'' < 0$

f Incr: $(-\infty, A) \cup (C, E)$

f Decr: $(A, C) \cup (E, \infty)$

Rel max: A & E

Rel min: C



$f < 0$: (B, D)

$f > 0$: $(-\infty, B) \cup (D, \infty)$

f IP: B & D