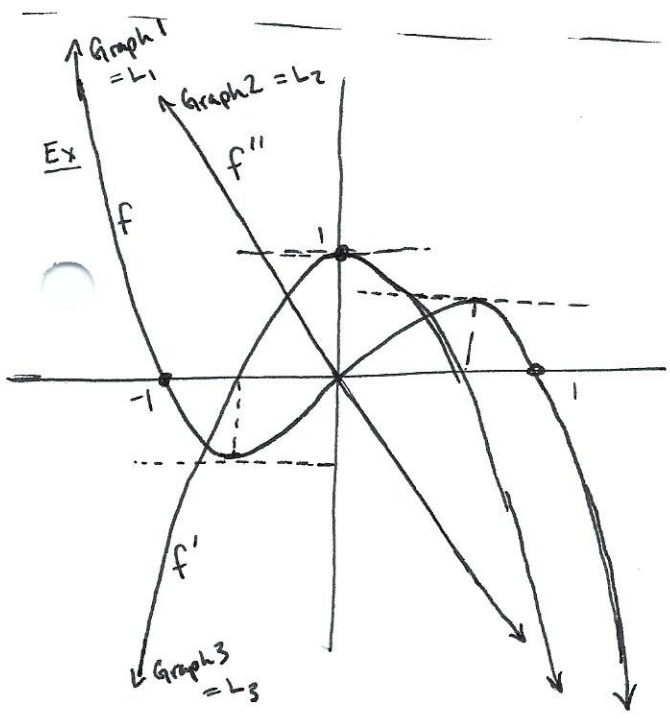


a) crit pts : $f'(x) = 0 \Rightarrow x = 0$
 $f'(x) \text{ DNE} \Rightarrow x = -1$
infl pts : none

b) f is \uparrow on $(-\infty, -1) \cup (0, \infty)$
 f is \downarrow on $(-2, 0)$
 f is \cup on $(-1, 1)$
 f is \cap nowhere

c) f has local min where $f'(x) = 0$ and f' changes from $-$ to $+$
 $\rightarrow x = 0$
 f has local max where $f'(x) = 0$ and f' changes from $+$ to $-$
 \rightarrow need more info



$L_3 = L_1' \rightarrow L_1$ must be f or f'
 $L_3' = \cancel{L_1}$ or L_2
 $\Rightarrow L_1 = f$
 $L_3 = f'$
 $L_2 = f''$

