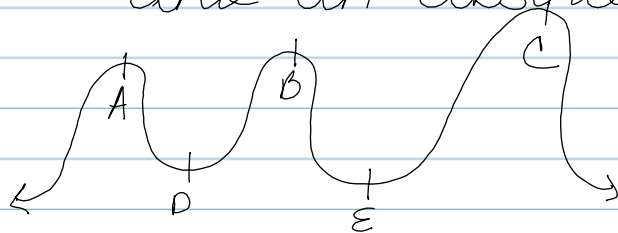


HW Questions Chpt 5

Difference between a relative min & max?
and an absolute min & max?

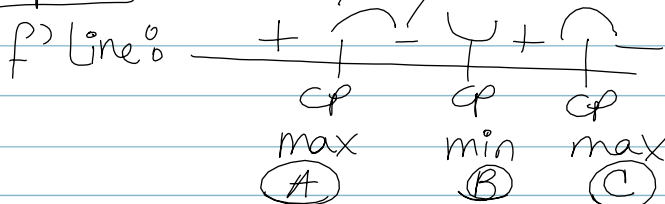


Relative max = A, B, C
Absolute max = C
Relative min = D, E
Absolute min = $-\infty$

or if limit then E

Step 1 $f(x)$; $f'(x)$

Step 2 $f'(x) = 0$ / $f'(x) = \text{undefined}$



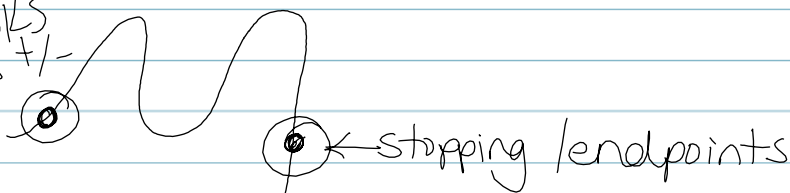
← all relative @ this point b/c we don't know all the values

rel. max $f(A) = 1/2 \Leftarrow$ absolute max

rel. max $f(B) = -4 \Leftarrow$ since only one choice is relative & absolute min.

rel. max $f(C) = 5$

Graph looks like this +/-



$f(K) = 4$; $f(R) = 12$

Domain needs to be endpoint on the # lines for 1st derivatives and do not need to pull domain values