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 \text{if limit then } E

\text{Step 1: } f'(x) \cdot f''(x)
\text{Step 2: } f'(x) = 0 \text{ / } f''(x) = \text{undefined}

f'' \text{ line: } x = A \quad x = B \quad x = C
\text{ max } \text{ min } \text{ max } - \text{ all relative at this point b/c we don't know all the values }

\max f(A) = 1/2 \iff \text{absolute max}
\max f(B) = -4 \iff \text{since only one choice is relative } \text{ and absolute min}

Graph looks like this:
- Stopping endpoints
\rightarrow f(K) = 4 \iff f(K) = 12

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