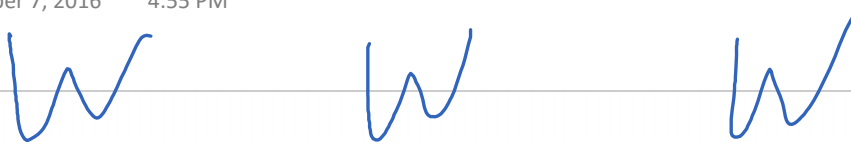


5.3 Graph

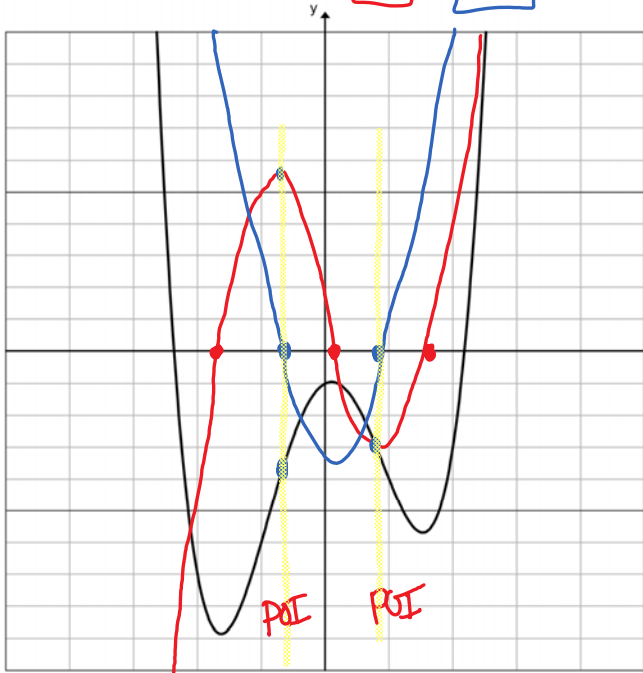
Monday, November 7, 2016 4:55 PM



Calculus AB

4.3 Opener

Given the graph of $f(x)$, draw $f'(x)$ and $f''(x)$



Local Min

on f \cup
 $f' = 0$ or und and changes from - to +
 $f'' > 0$ if not 0 or und

Local Max

on f \cap
 $f' = 0$ or und and changes from + to -
 $f'' < 0$ if not 0 or und

Increasing

on f \nearrow
 $f' > 0$
 f'' No Data

Decreasing

on f \searrow
 $f' < 0$
 f'' No Data

Concave Up

on f \cup
 f' positive slope
 $f'' > 0$

Concave Down

on f \cap
 f' negative slope
 $f'' < 0$

Point of Inflection

on f \curvearrowright
 f' local min or max
 $f'' = 0$ or und and changes sign

Given the graph of $f'(x)$, draw $f(x)$ thru (0,2)

