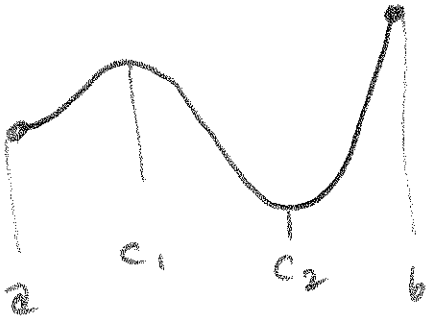


201 §4.1 I #5 1, 4, 7, 10-14, 17, 18

~~§4.1 II #5 37, 38, 43, 46, 51, 58, 59, 67 a-c, 68, 71, 72~~

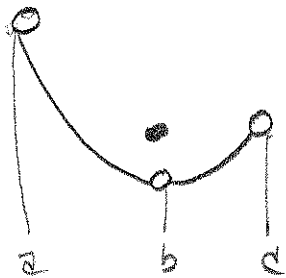
#5 1-6 Determine from graph whether the function has any absolute extremes on $[a, b]$. Then explain how it's consistent w/ Theorem 1.

①



Yes, It's continuous on $[a, b]$.
∴ has abs max & min.

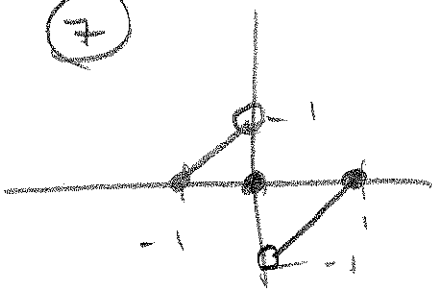
④



No, It has no absolute extremes. It's not continuous!
otherwise, it'd have to.

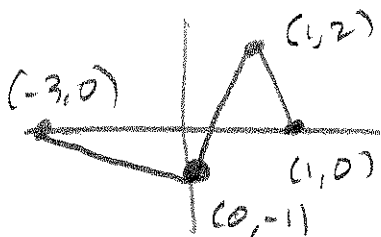
#5 7-10 Find abs extremes & where they occur.

⑦



It has no abs. extremes!

⑩



Abs Max of f $y=2$ @ $x=1$

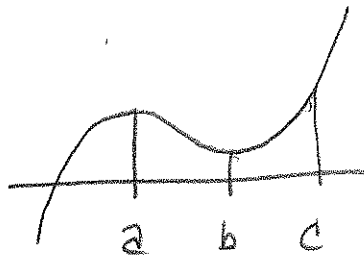
Abs Min of f $y=-1$ @ $x=0$

201 §4.1 #5 11-14, 17, 18
 #5 11-14 Match Table w/ graph

(11)

| x | f'(x) |
|---|-------|
| a | 0 |
| b | 0 |
| c | 5 |

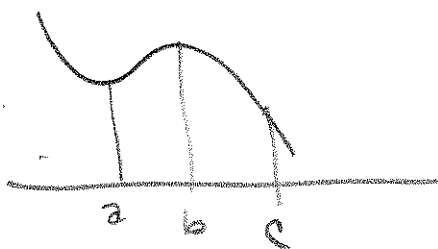
(c)



(12)

| x | f'(x) |
|---|-------|
| a | 0 |
| b | 0 |
| c | -5 |

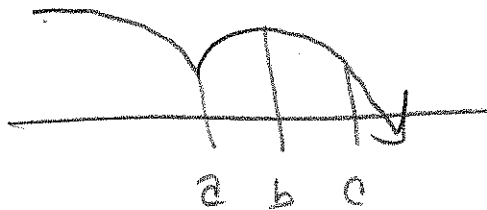
(b)



(13)

| x | f'(x) |
|---|--------------|
| a | 0 |
| b | 0 |
| c | -2 |

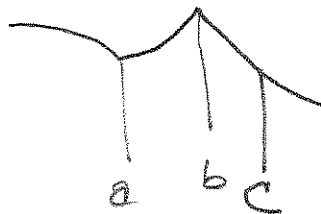
(d)



(14)

| x | f'(x) |
|---|--------------|
| a | 0 |
| b | 0 |
| c | -1.7 |

(a)

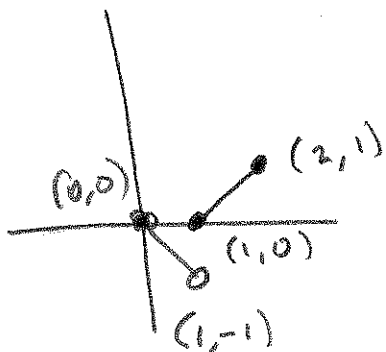


201 § 4.1 #s 17, 18

#s 15-20 sketch the graph & see if it has any abs. extremes on its D .

Explain how TI is OK with your work

(17) $g(x) = \begin{cases} -x & 0 \leq x < 1 \\ x-1 & 1 \leq x \leq 2 \end{cases}$



Abs max @ $x=2$ of $y=1$

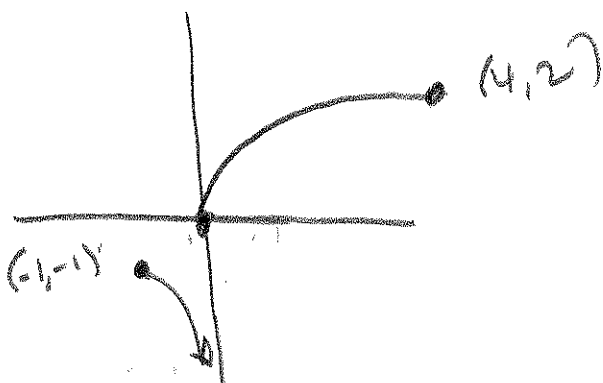
No abs. min.

It's not cont^s, so TI

Doesn't Apply.

Not cont^s @ $x=1$

(18) $h(x) = \begin{cases} \frac{1}{x}, & -1 \leq x < 0 \\ \sqrt{x}, & 0 \leq x \leq 4 \end{cases}$



Abs max of 2 @ $x=4$

No abs min.

TI D.N.A.

(Not cont^s @ $x=0$)