Q1: Assuming that T(x) is a differentiable function that decreases with x, which statement is always true?

a) T<0

d) dT/dx>0

b) T>0

e) I don't know!

c) dT/dx < 0

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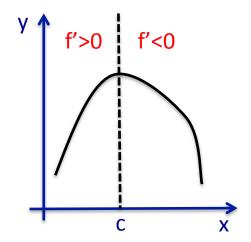
b) T>0

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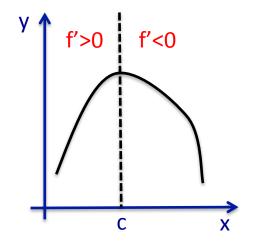
c) dT/dx < 0

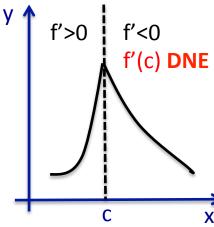
- a) df/dx changes sign from negative to positive at c
- b) df/dx = 0
- c) df/dx changes sign from positive to negative at c
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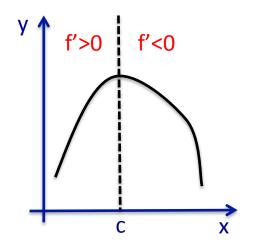
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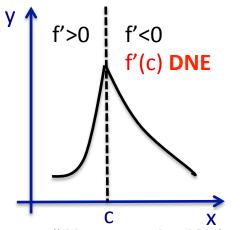


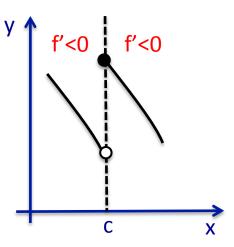


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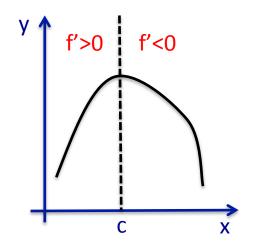


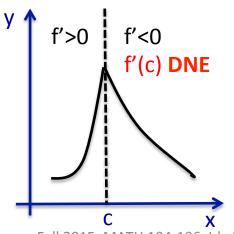


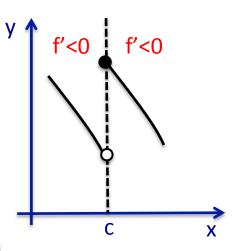


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