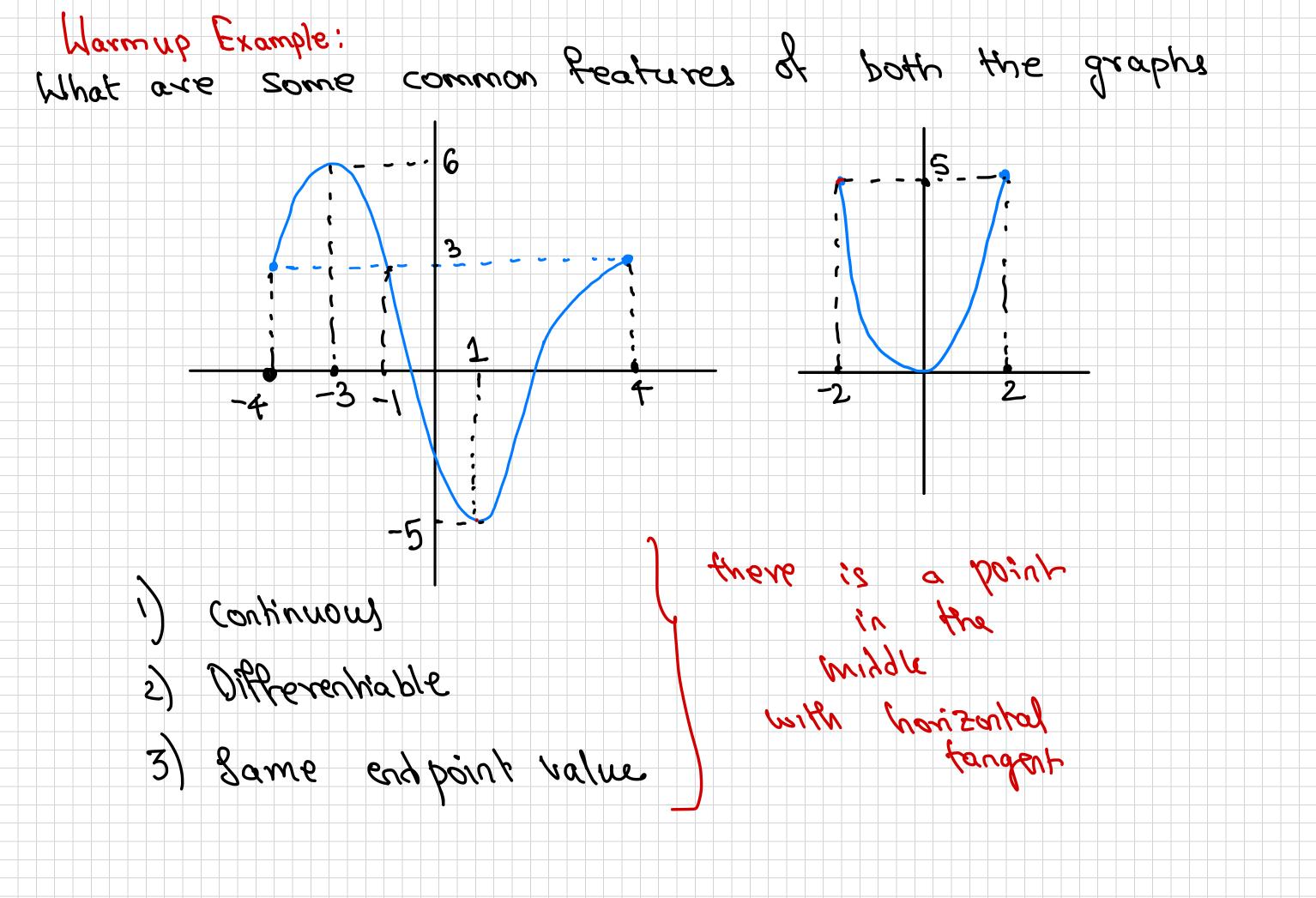
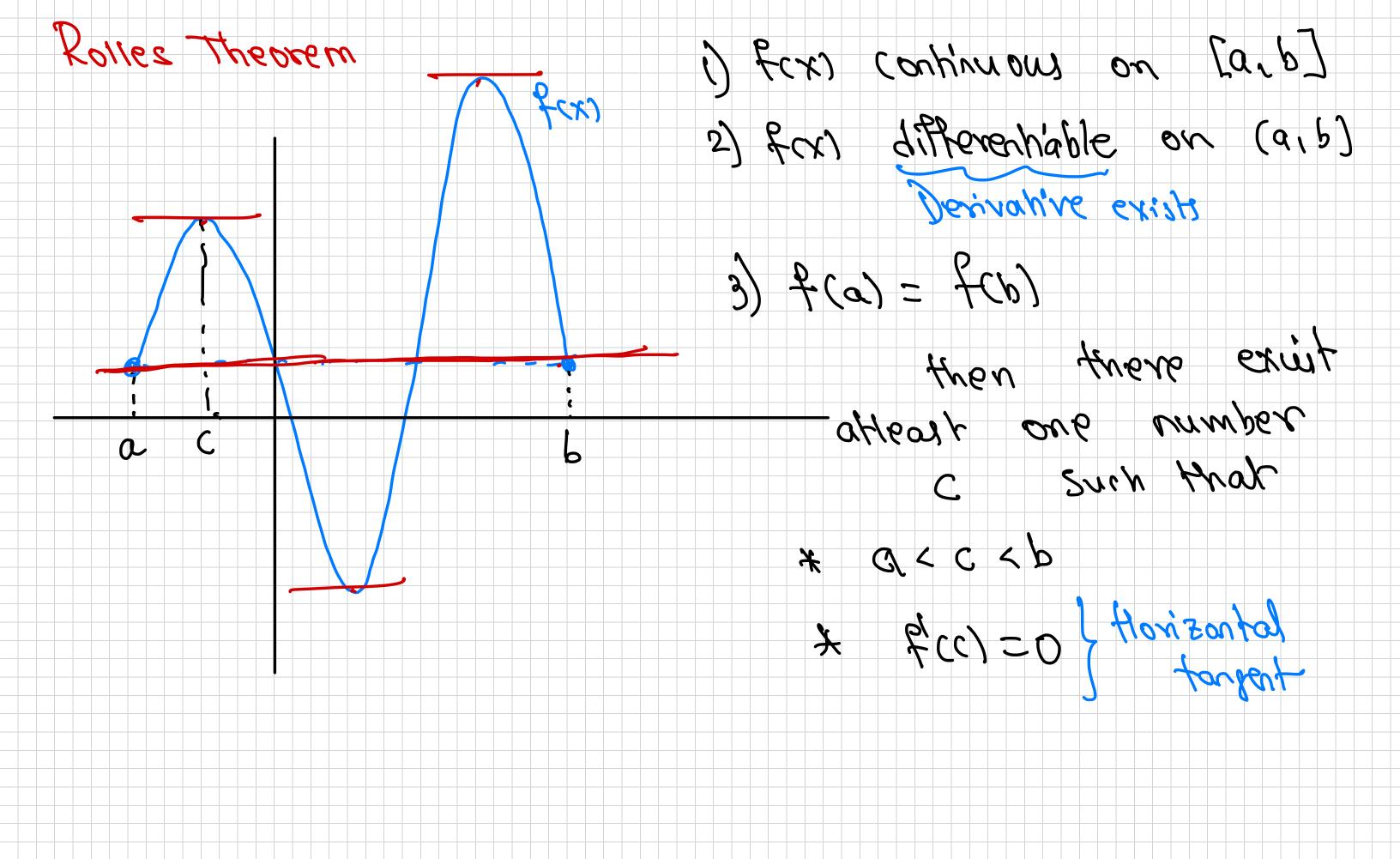
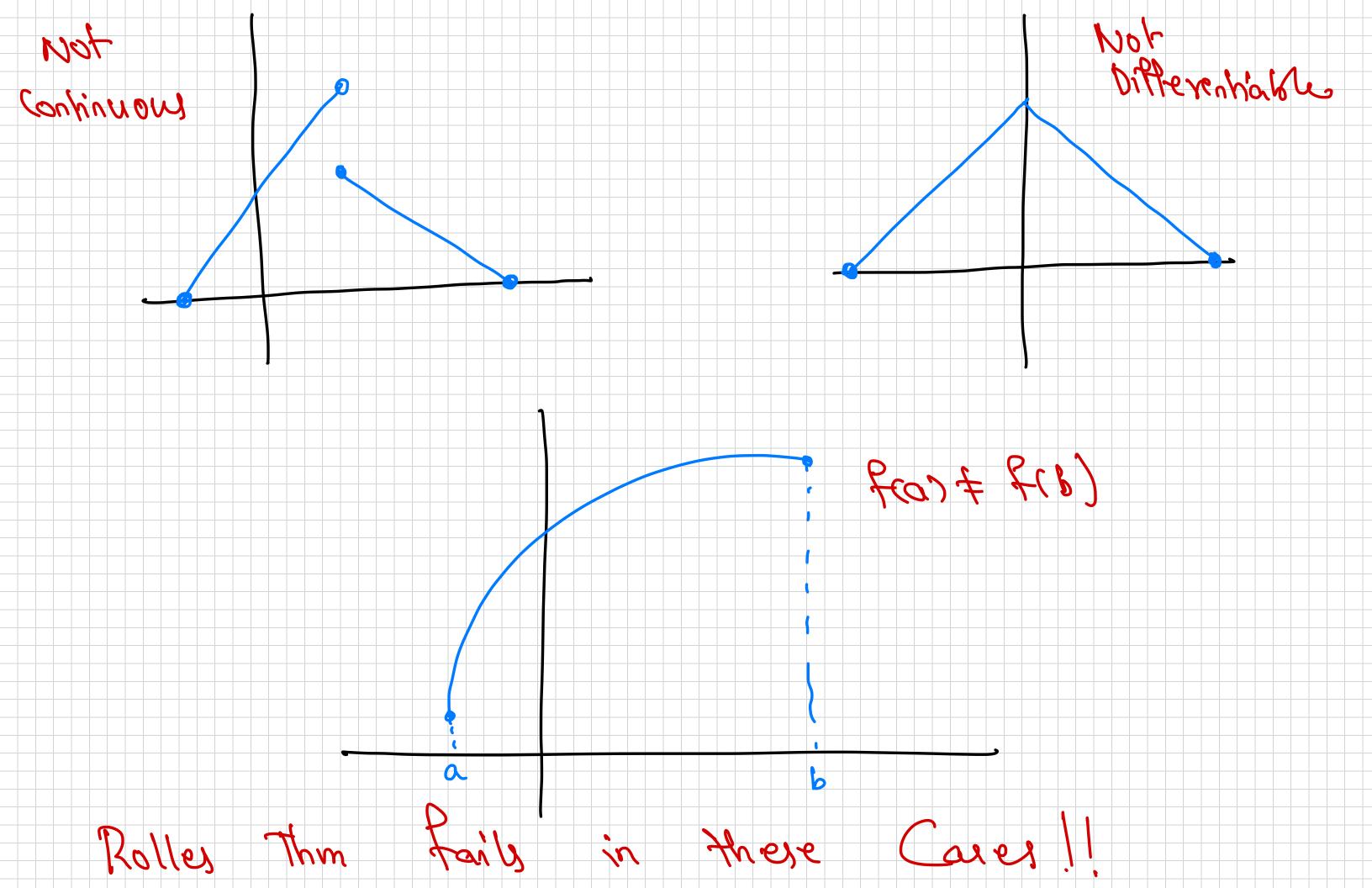
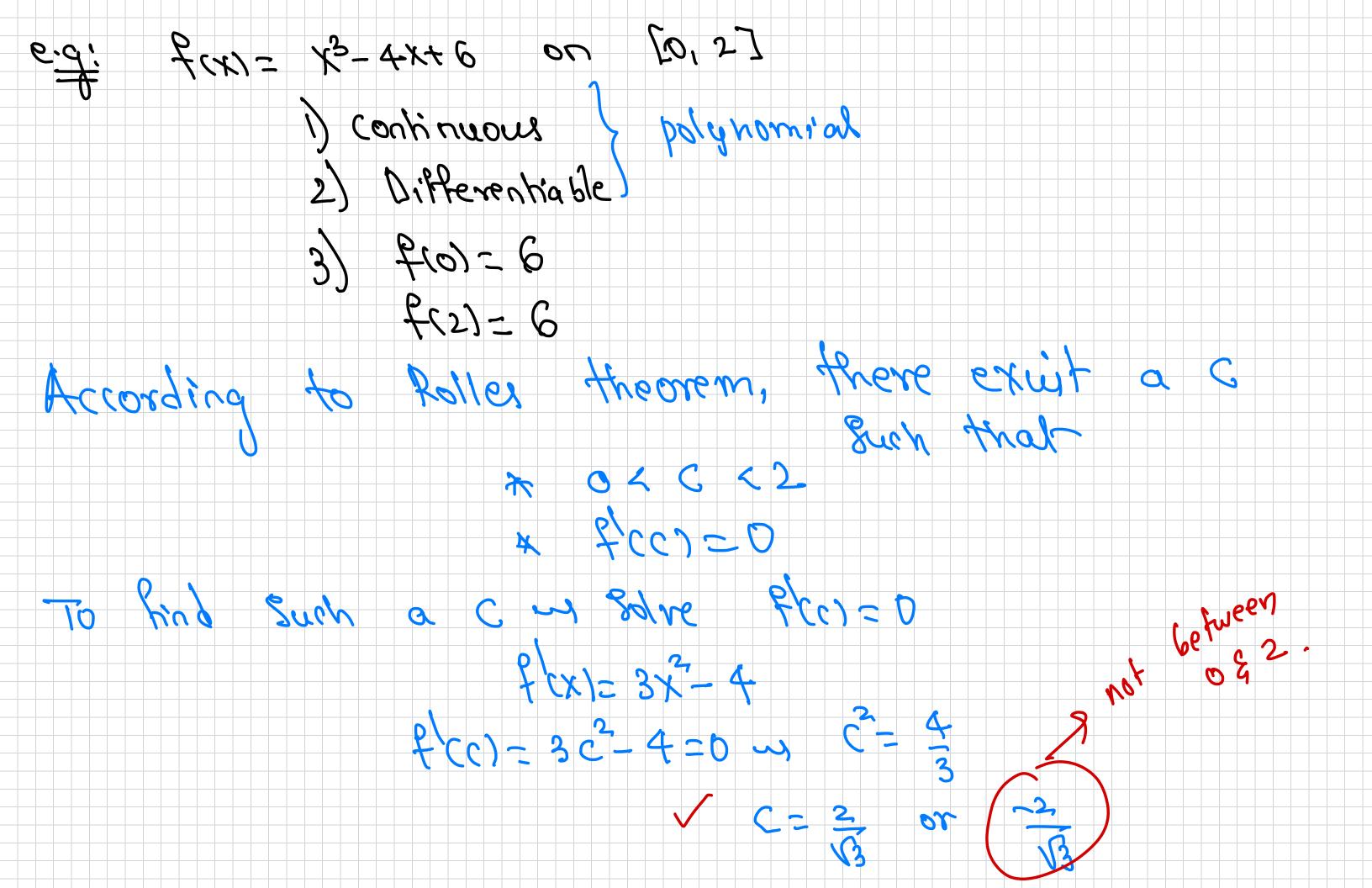
Lesson 22 (10/22/25) Today: * Rolles Theorem 1 42

* Mean value Theorem 1 * First Derivative Test 143 Office Hours: MWF 2:45PM - 4:15PM, MATH 842 Announcements: # HW Due: Lesson 20,21 - Today * HW Due: Lesson 22 - Thursday * Quiz 13: Lesson 19,20,21 Thursday

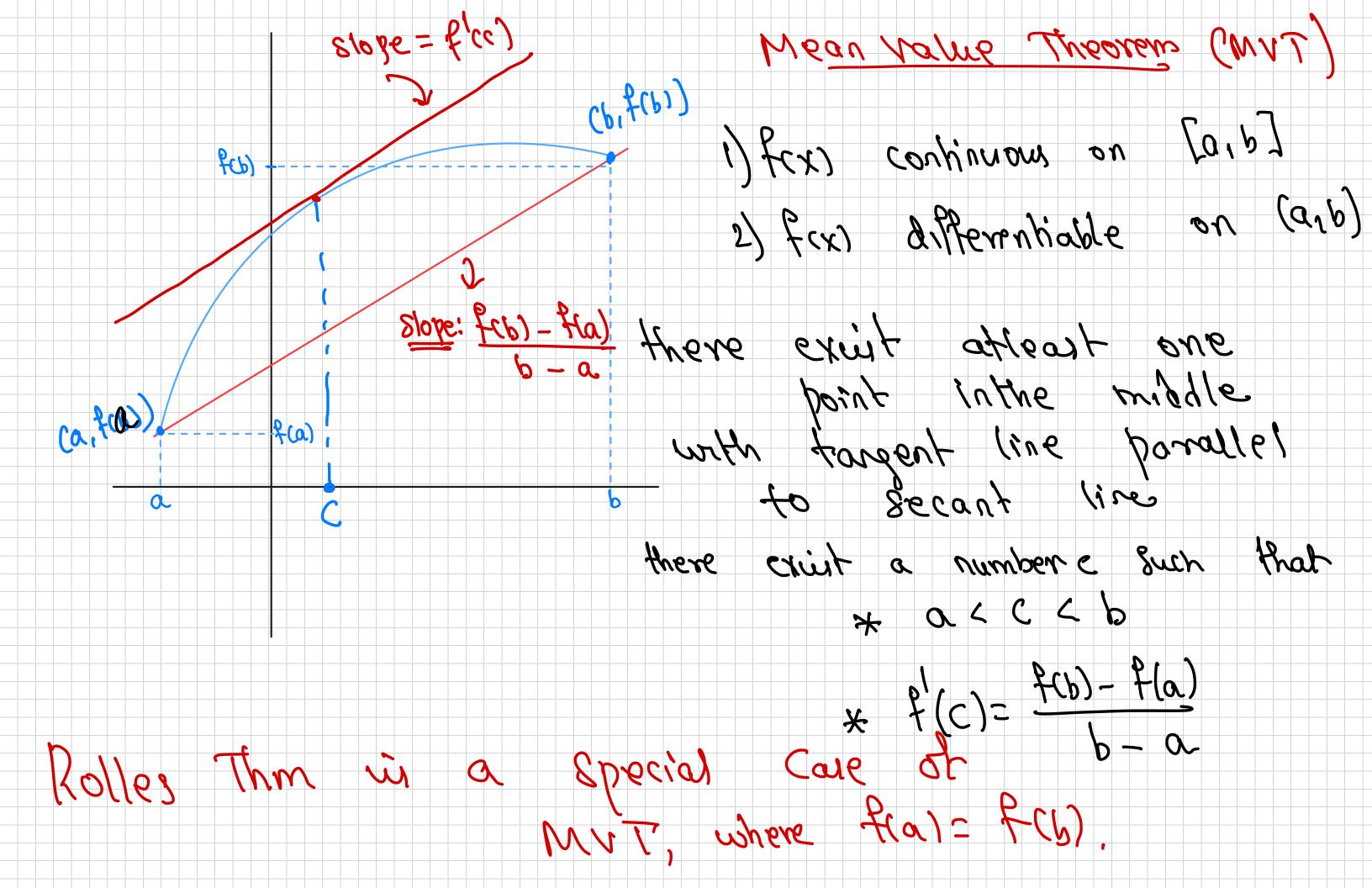


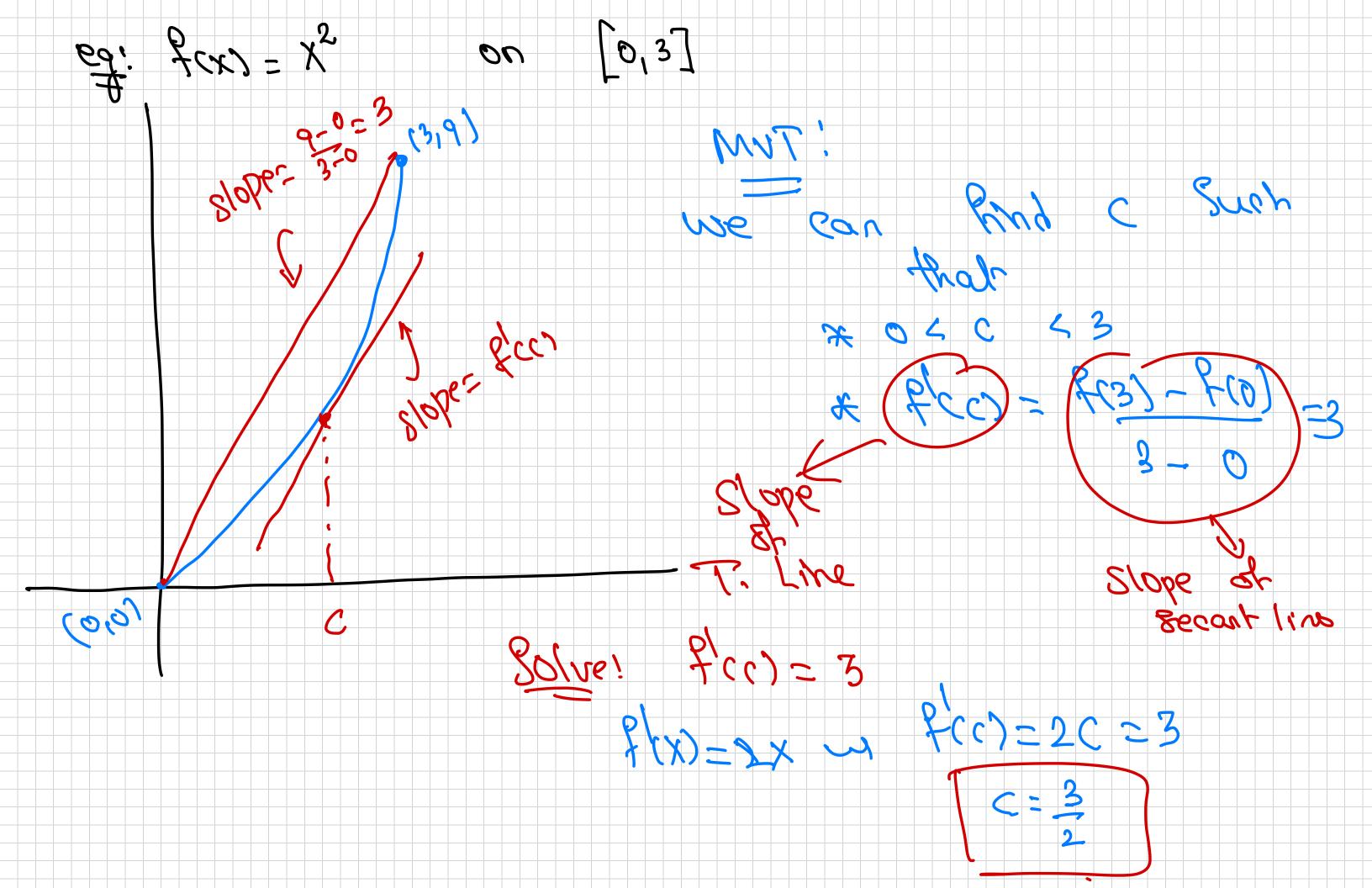


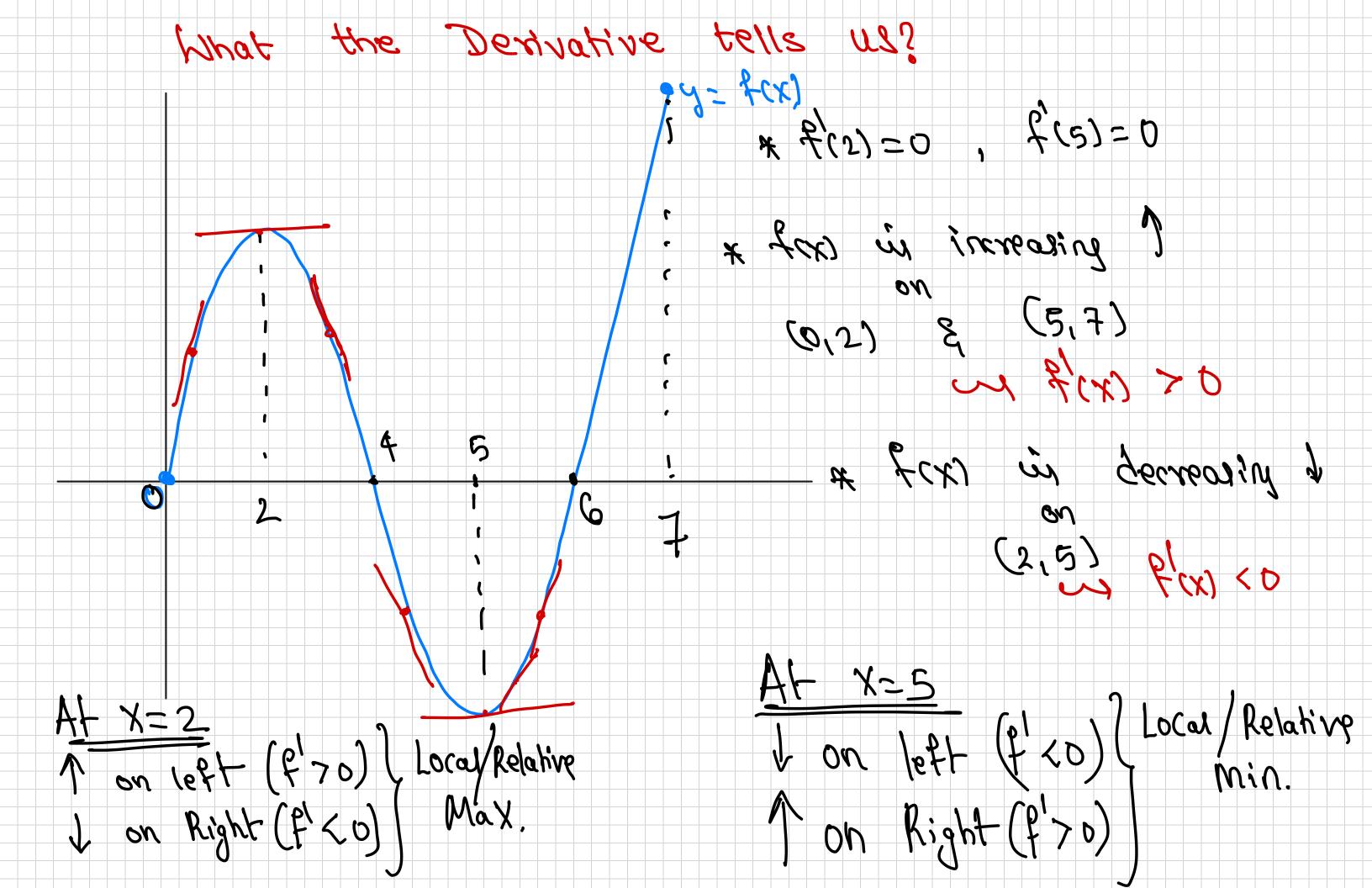




4(1)= 6x3 00 [-3,3] 1) Conhunon | Composition &t caponental spinonyled 3 2) Differentiable) 3) +(-3)= e 7131 = 67 times exist that Nows -34 6 43 * 7(c)=0 Solve 700)=0 7(X) = 4 e = e 2 × -1 + (c) = e 2 c = 0







First Derivative Test * Relative | Local max. at x= C it $C = (777)^2$ increasing on left (t70)
- decreasing on Right (t60) x Nolotine Tolon any of x=c - 2(x) is 1 on left (750)

