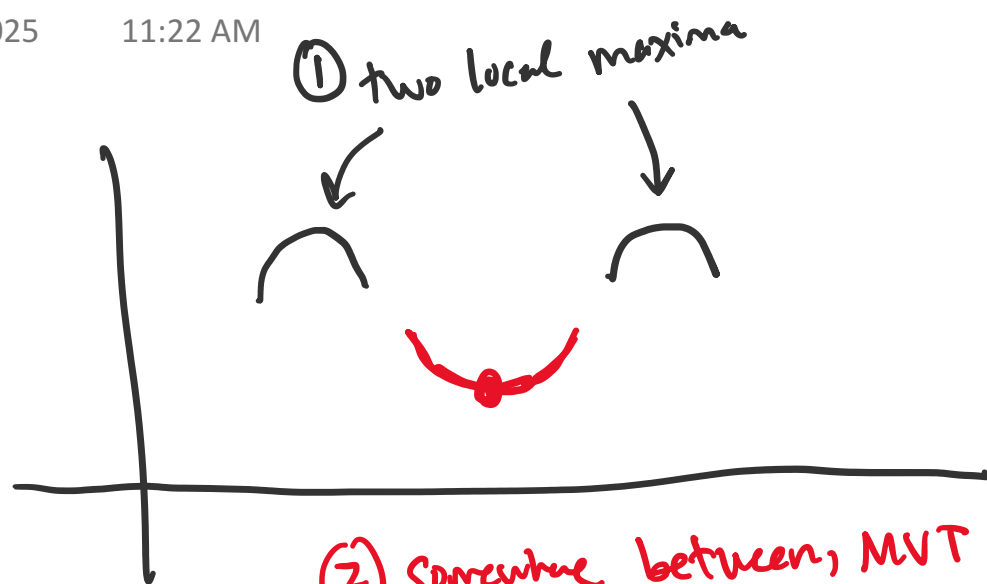


Quiz 5 MTH 428/528 Spring 2025

Monday, April 21, 2025

11:22 AM



② Somewhere between, MVT shows there is another place w/ horizontal tangent

→ there must be a place w/ a rel. min.

⇒ no ^{continuous} 1-dimⁿ function can have 2 local max but no local min

Consider

$$f(x,y) = -(x^2-1)^2 - (x^2y-x-1)^2$$



crit pts are $(-1,0), (1,2)$



can show from here these are rel. max