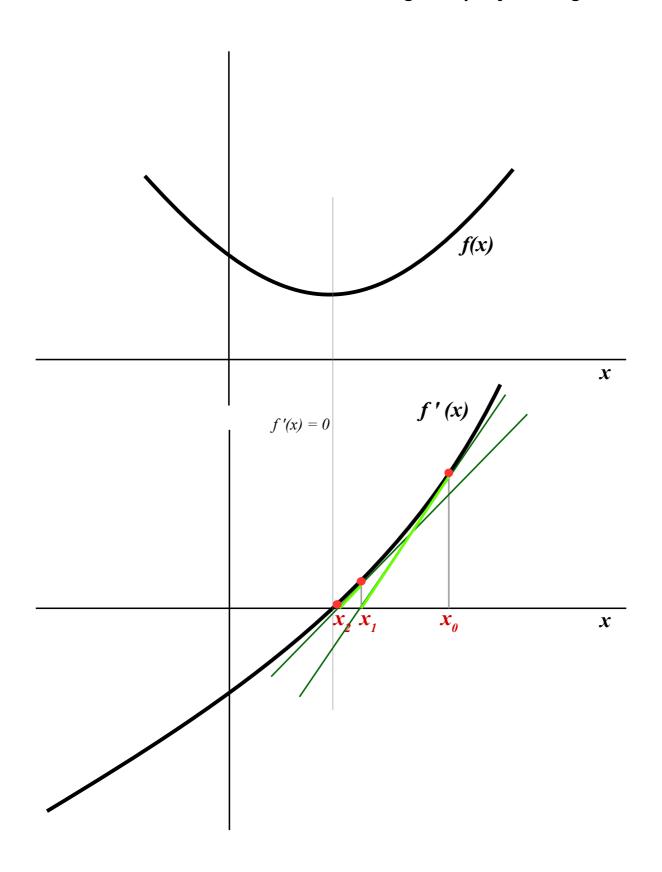
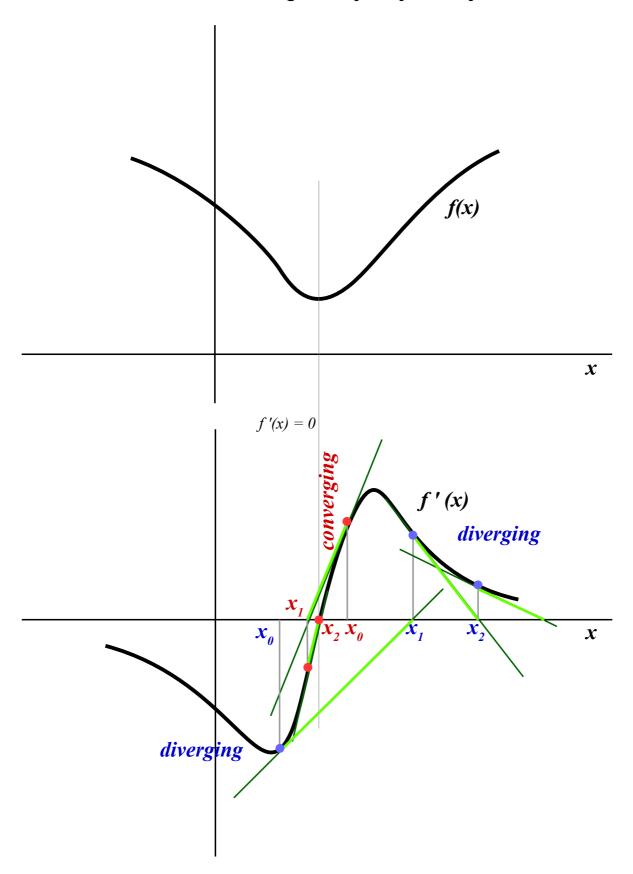
Finding a Local Minimum with Newton Methods

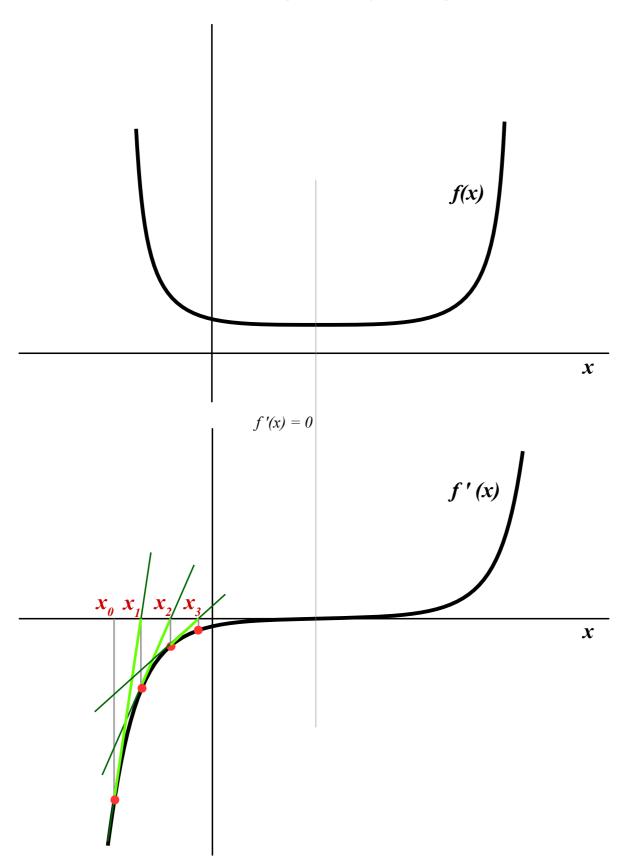
"Standard" Case: Newton Method Converges Rapidly on Large Interval



Case: Newton Method Converges Only Very Locally to Minimum

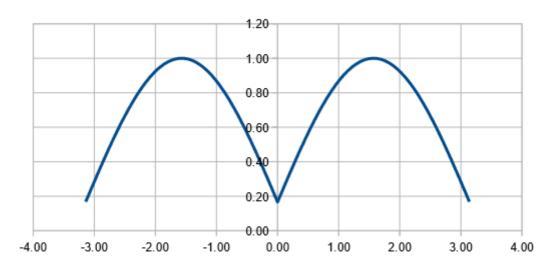


Case: Newton Method Converges Slowly on Large Interval



Converting a Function with Small Converging Domain to a Function with Large Slowly Converging Domain

(abs(sin(x)) + 0.2) / 1.2



 $((abs(sin(x)) + 0.2) / 1.2)^{n}$, for m = 1,2,4,8,16, and 32

