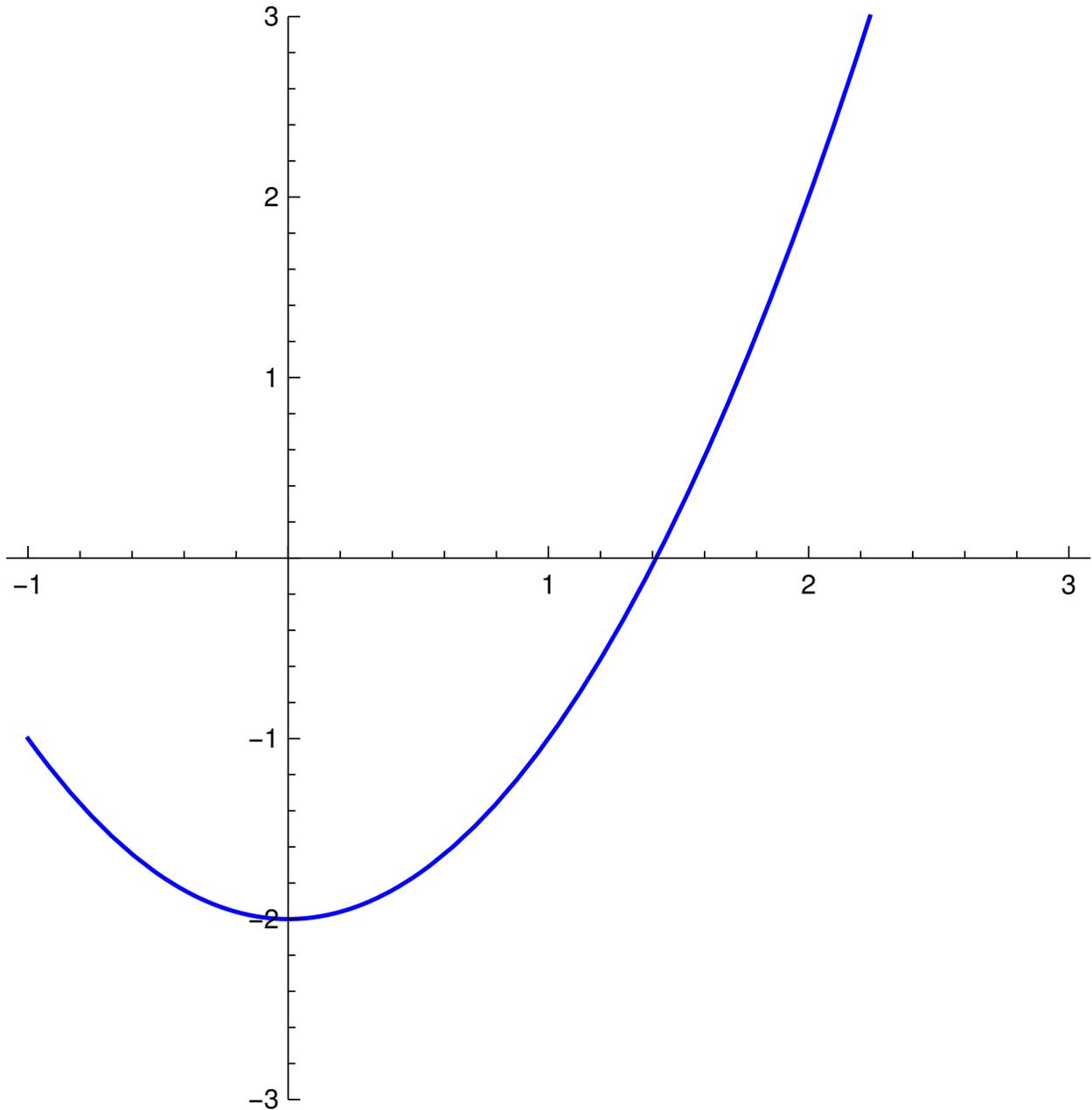Unit 14: Worksheet

Theorems and Newton

1: Formulate the mean value theorem.

2: Formulate the intermediate value theorem.

3: Formulate the Rolle's theorem.

4: Formulate the extreme value theorem.

5: Formulate Fermat's principle.

6: What is the fundamental theorem of trigonometry?

7: Recite the second derivative test. Remember Maxi and Mini.
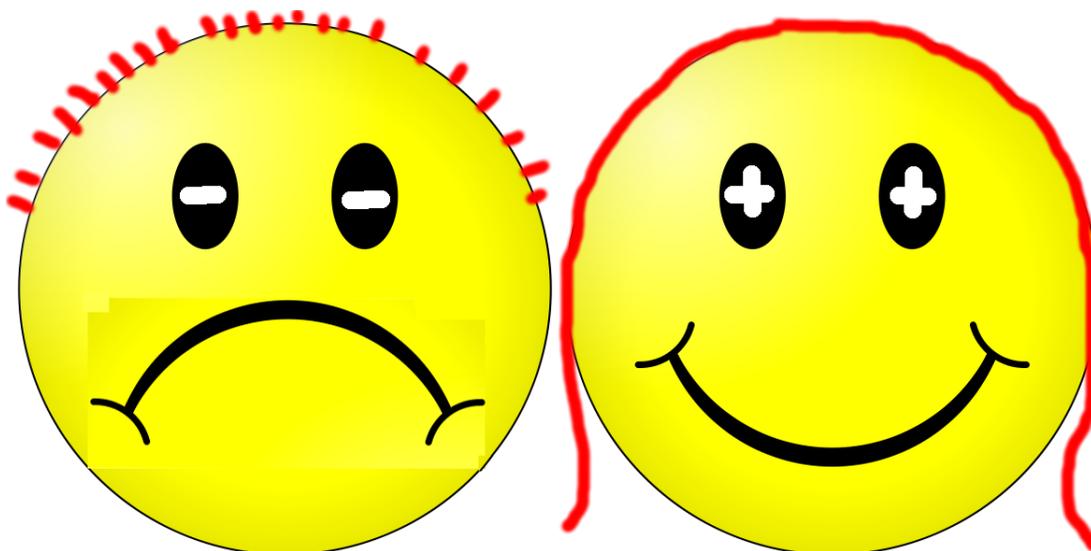
8: In the following graph $y = x^2 - 2$ trace a Newton step starting at $x = 1.0$.

9: Now do a second step!