

Figure 1 At least one root exists between the two points if the function is real, continuous, and changes sign.

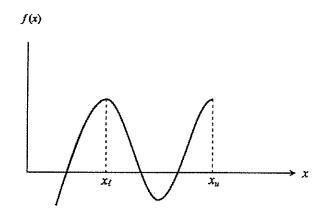


Figure 2 If the function f(x) does not change sign between the two points, roots of the equation f(x) = 0 may still exist between the two points.

Source: unknown