



After describing Newton's method, Cayley writes, concerning a polynomial with roots A, B, C, \dots in the complex plane:

The problem is to determine the regions of the plane such that P , taken at pleasure anywhere within one region, we arrive ultimately at the point A , anywhere within another region we arrive at the point B , and so for the several points representing the root of the equation. The solution is easy and elegant for the case of a quadric equation; but the next succeeding case of a cubic equation appears to present considerable difficulty.

This paper of Cayley's was the starting point for many future investigations.