MENOLLY LYSNE, IHPST at University of Toronto

Why do we remember Lagrange's but not Laplace's work on singular solutions?

In 1772 and 1774 respectively, Laplace and Lagrange wrote memoirs on determining singular solutions of differential equations, but when people look back, often Laplace's paper is forgotten. While there are obvious similarities to the memoirs, the authors presented their work completely differently and used different methods. In comparing these two papers, I will investigate why Lagrange is remembered but also the aspects of the friendship between Laplace and Lagrange that potentially led Laplace not to improve his method when presented with Lagrange's superior one.