1092-20-25   **Cecil A. Ellard*** (`cellard@ivytech.edu`). *Local Rationality.* Preliminary report.

We discuss a global characterization of rational group elements, and prove a similar local characterization, using Galois theory. We then give a separate proof that the global and local hypotheses are equivalent, using Dirichlet's theorem on prime numbers in arithmetic sequences. (Received June 29, 2013)