[68r]

Ockham Park Ripley Surrey Friday . 17<sup>th</sup> Dec <sup>r</sup> ['1840' added in pencil by later reader]

Dear M<sup>r</sup> De Morgan. This is very mathematical weather. When one cannot exercise one's muscles out of doors, one is peculiarly inclined to exercise one's brains in-doors. Accordingly I have been setting vigorously to work again, with much satisfaction. But I am sorry to say that I am sadly obstinate [68v] about the Term at which Convergence begins for the Series (A) page 231 of Algebra, and which we thought had been made clear by you on Monday Evening . I must persist in thinking Convergence begins at  $\frac{x^{33}}{2.3.4...32.33}$ , and I have enclosed my Demonstration of my view of the case, & which seems to me as clear as possible. At any rate this will show you at once where my blunder is ; if I have blundered, for I can hardly think I have, so very palpable [69r] does the proof appear to me. The other night I had unluckily been 10 days or more without thinking about anything of the kind, and consequently the ['whole' inserted] thread of the argument was not present to me; or I might have spared you & myself this

trouble now. \_\_\_\_ I have thought with much pleasure of my agreeable evening on Monday ,\_\_\_\_ mathematical & educational. Yours most truly A. A. Lovelace

[69v] [a child's scribbling?]