Copy of a letter from Newton to Henry Oldenburg, dated 13 June 1676

Author: Isaac Newton

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<4v>

Sir I have here sent you the letter I promised concerning these series. It is blotted in some places but rather then write it over fair, I have set down here the places less legible. p.1, l: 17, $\overline{\mathrm{P}+\mathrm{PQ}}\}^{\frac{\mathrm{m}}{\mathrm{n}}}$. lin: 34, $\overline{\mathrm{cc}}\}^{\frac{1}{2}}$. p. 4, l: 35, $\frac{\mathrm{CB}^{\mathrm{q}}}{\mathrm{CD}}$. lin 36, $\frac{1}{14\mathrm{rrc}^4}$ p: 6, l:3, $+\frac{14\mathrm{x}^5}{2025\mathrm{a}^4}+\frac{604\mathrm{x}^7}{893025\mathrm{a}^6}$ p: 7, l 14, Quare $\mathrm{AG}=\frac{3}{2}\mathrm{d}-\frac{1}{5}\mathrm{x}-\frac{12\mathrm{xx}}{175\mathrm{d}}-\mathrm{vel}+\&\mathrm{c}$. lin: 40, in DP cape $\mathrm{DM}=\frac{3\mathrm{AD}^{\mathrm{q}}}{4\mathrm{AK}}$. lin 42 $\frac{4\mathrm{AN}+\mathrm{A}\beta}{15}\times 4\mathrm{AD}$, lin 43 $\frac{21\mathrm{AN}+4\mathrm{A}\beta}{75}\times 4\mathrm{AD}$.

I received yours concerning M$^{\mathrm{r}}$ Lucas, for whom I intend an answer. But he referring in the Postscript to the R. societie's tryal of the Experiment, I desire you would be pleased to send me some short information about their tryal: particularly the shape of their Image as to length & breadth, & the angle of **{**their Prism conteined**}** by the refracting sides, & whether they caused that angle to be very exactly measured, or **{**esteemed it by guesse**}** a less exact measure to be any number of degrees . For I imagin the difference between me & M$^{\mathrm{r}}$ Lucas lies either in the different angles of our Prisms; or in this that he perhaps measures the length of the Image by the streight sides, I by the middle line or axis; or in both together. In his experiments which he urges against me you'l find want of circumspection. Sir I am in hast

Your humble Servant

Is. Newton.

Cambridge

June 13 1676

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