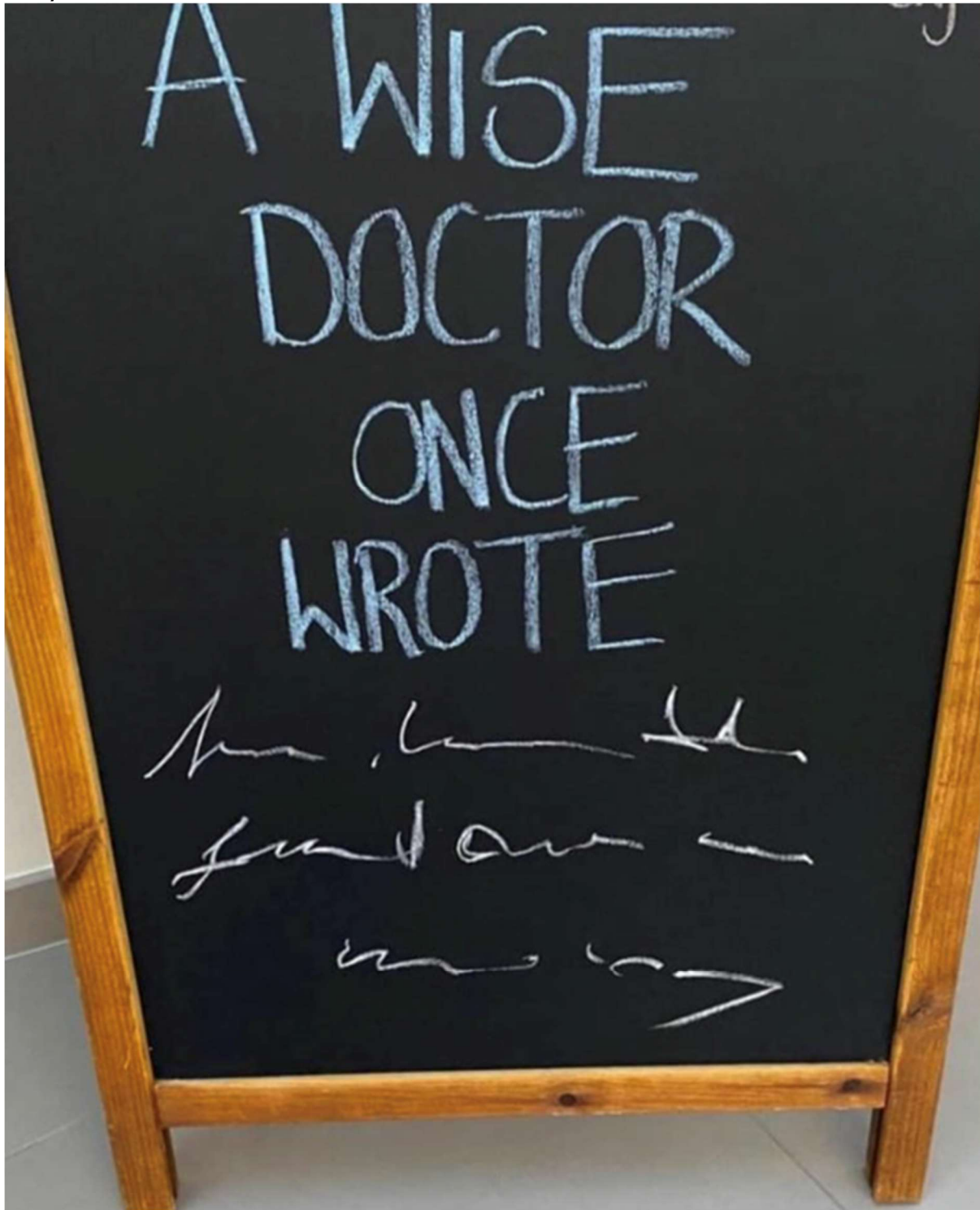


On Handwriting

Why we need a note taker



A variation



A real thing

A handwritten musical score on aged, yellowed paper, featuring multiple staves of music. The notation includes various note values, rests, and dynamic markings. Key markings include *anso.*, *p.*, and several instances of *cres:* (crescendo). The score is organized into measures, with some measures containing complex rhythmic patterns and others featuring long, sweeping lines. The paper shows signs of age, including foxing and some staining. A metal clip is visible on the left edge of the page.

Another real thing

En Theorema Analyticum continens Criterium, utrum formula
differentialis differentialis cuiusvis gradus invariabilis sit integrabilis
vel ne!

Cuiuscunque gradus fuerit formula differentialis proposita, ea ponendo
 $\partial y = p dx$, $\partial p = q dx$, $\partial q = r dx$, &c. semper ad hanc formam revocatur
 ∂V , in qua erit V quantitas ex litteris x, y, p, q, r &c. utcunque con-
flata, quae ex modo solito differentiatu praebet talem formam
 $\partial V = M dx + N dy + P dp + Q dq + R dr$ &c.

Jam dico quoties formula ∂V integrationem admittit, toties
fore $N - \frac{\partial P}{\partial x} + \frac{\partial Q}{\partial x^2} - \frac{\partial^2 R}{\partial x^2} + \text{&c.} = 0$ ac vice versa.

Exemplum. Si proposita haec formula $\frac{4x^2 dy - x dy^2 + xy^2 dy}{4y dx}$ sumto dx constet
quae per positiones factas abit in $\frac{4p - xpp + xyq}{4y} dx$, ut sit $V = \frac{p}{y} - \frac{xpp}{4y} + \frac{xyq}{y}$
haec quantitas differentiatu, fiet quae
 $M = -\frac{pp}{4y} + \frac{q}{y}$; $N = -\frac{p}{4y} + \frac{2xpp}{4y^2}$; $P = \frac{1}{y} - \frac{2xp}{4y}$; $Q = \frac{x}{y}$; $R = c$; $S = 0$ &c.

Hic fit $\partial P = -\frac{\partial y}{4y} - \frac{2p \partial x}{4y} - \frac{2x \partial p}{4y} + \frac{4xpp \partial y}{4y^2} = -\frac{p \partial x}{4y} - \frac{2p \partial x}{4y} - \frac{2xq \partial x}{4y} + \frac{4xpp \partial y}{4y^2}$
et $\frac{\partial P}{\partial x} = -\frac{2p}{4y} - \frac{2xq}{4y} + \frac{4xpp}{4y^2}$.

Porro $\partial Q = \frac{\partial x}{y} - \frac{x \partial y}{4y} = \frac{\partial x}{y} - \frac{x p \partial x}{4y}$ unde $\frac{\partial Q}{\partial x} = \frac{1}{y} - \frac{x p}{4y}$ et derivus differentialis
 $\frac{\partial^2 Q}{\partial x^2} = -\frac{\partial y}{4y} - \frac{p \partial x}{4y} - \frac{x \partial p}{4y} + \frac{2xpp \partial y}{4y^2} = -\frac{p \partial x}{4y} - \frac{p \partial x}{4y} - \frac{xq \partial x}{4y} + \frac{2xpp \partial y}{4y^2}$
ideoque $\frac{\partial^2 Q}{\partial x^2} = -\frac{2p}{4y} - \frac{xq}{4y} + \frac{2xpp}{4y^2}$. Quae habebitur

$N - \frac{\partial P}{\partial x} + \frac{\partial^2 Q}{\partial x^2} - \text{&c.} = -\frac{p}{4y} + \frac{2xpp}{4y^2} - \frac{xq}{4y} = 0$ Cuius formula ∂V est integrabilis
Manifesto autem integrale est
 $\frac{x dy}{4y}$