The Life I gave annihilate ;——
Expiring Souls re-animate !
LADIES, a partial Friend to You
I am ; you'll ever find me true,
While Virtue holds the Guiding-Clew :
But if your Steps to Folly bend,
(Tho' you may think me still your Friend)
I brand your Character and Name
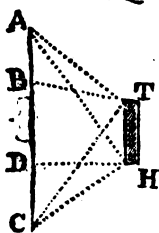With lasting Infamy and Shame.

New MATHEMATICAL QUESTIONS,
To be answer'd in the next Year's DIARY.

I. QUESTION 279.   By Mr. Landen.

A Charming brisk Maid has assur'd me, and said,
Since I'm such a fine Mathematician,
(*Laying puzzling aside, for the Joys of a Bride),*
She will wed me——but on this Condition :
That I first shall unfold what * *Pieces* of Gold
Her Father has for her in Store :
And these I must find from the *Date* subjoin'd,
And then I'm to puzzle no more.

* The Pieces are *Half-Guineas, Guineas, Moidores,* and
Three Pound Twelves. The whole Number of them is
4000.   And if v, x, y, and z, be put for the Number
of each Sort respectively, of x^3 y^2 z is a *Maximum.*
Quere what is the *Lady's Fortune* ?

II. QUESTION 280.   By Mr. John Williams.

G Oing along a *River's* Side, on an even
and direct Road ABC, I observed a
Tower on the River's other Side, whose An-
gle of Altitude at A was 5° 24'; going far-
ther on to B, 100 Yards, the Angle of Alti-
tude was 6° 27'; and intending, again, to
take an Observation when directly opposite to
the Tower, but was prevented by an Island
in the River (over-grown with Furs). I then
came to C, 400 Yards from B, where I
found the Angle of Altitude was 8° 36'. Qu. the Tower's Height.

III. QUESTION 281.   By Mr. J. May, jun. of Amsterdam.

I T is required to find (by a general Theorem) the Number of Fractions
of different Values, each less than Unity, so that the greatest Deno-
minator be less than 100 ?

IV.