Visceribus super incumbens; lavit improba teter

··Ora cruor:

Sic ruit in densos alacer Mezentius hostes.
Sternitur infelix Acron, et calcibus atram
Tundit humum exspirans, infractaque tela
cruentat.

VIRGIL, Æneid X., 719-731.

- 1. Scan the first two lines of the extract, marking the quantity of each syllable, and explaining any peculiarities.
 - 2. Parse pacta, impastus, arrexit, lavit.
- Give the force of the inseparable particle, ve.

Translate:

Cingitur ipse furens certatim in prælia Turnus:

Jamque adeo, Rutulum thoraca indutus, aënis Horrebat squamis; surasque incluserat auro, Tempora nudus adhuc; laterique accinxerat ensem;

Fulgebatque alta decurrens aureus arce; Exsultatque animis, et spe jam præcipit l.ostem

Qualis ubi abruptis fugit præsepia vinclis Tandem liber equus, campoque potitus aperto,

Aut ille in pastus armentaque tendit equarum, Aut assuetus aquæ perfundi flumine noto, Emicat, arrectisque fremit cervicibus alte Luxurians; luduntque jubæ per colla, per armos.

Ibid, XI., 486-497.

- 1. Cite a parallel passage from a Greek author.
 - 2. Parse tempora, potitus, and emicat.
- I. Explain the principal uses of the Ablative case, giving short examples.
- 2. Parse and explain the words italicised in these phrases: *Macte* esto virtute pro Jupiter, Manlius locutus sertur.
- 3. Give the Perfects, Supines and Infinitive Moods of tono, fleo, pergo, lacesso, ordior, adipiscor.
- 4. Translate the following: (a) It seems that Cicero erred. (b) Ambassadors came from Rome to complain of injuries. (c) This is too good to be true.

ALGEBRA.—PROBLEMS.

40. Sum, by common Algebra, the series:

$$\frac{7}{3.4.5.6} + \frac{11}{4.5.6.7} + \frac{17}{5.6.7.8} + \frac{25}{6.7.8.9} + \text{ etc.}$$

to n terms, and also to infinity.

41. Sum the series:

$$\frac{11}{2 \cdot 3 \cdot 4 \cdot 5 \cdot 6} + \frac{35}{3 \cdot 4 \cdot 5 \cdot 6 \cdot 7} + \frac{81}{4 \cdot 5 \cdot 6 \cdot 7 \cdot 8} + \frac{155}{5 \cdot 6 \cdot 7 \cdot 8 \cdot 9} + \dots$$

 $\frac{263}{6.7.8.9.10} + \text{ etc., to } n \text{ terms, and also}$ to infinity.

Professor Edgar Frisby, M.A., Washington Naval Observatory.

- 42. ABC is any triangle inscribed in a given circle, ABEC, of which AE is a diameter. A Q bisects angle between AE, and the perpendicular from A on base BC; show that angle BAC = angle subtended by arc O C at centre of circle.
- 43. The first term of a series is a, the second term is b, and each subsequent term is a Geometric mean between the two preceding terms; shew that the n^{th} term is

$$b\left(\frac{a}{b}\right)^{\frac{n-2}{2}-(-1)n}$$

- 44. Sum the series $1+0+\frac{1}{2}+\frac{1}{4}+\frac{3}{6}+\frac{1}{$
 - D. FORSYTH, B.A., Math. Master, High School, Berlin.
- 45. In a given triangle to inscribe a triangle equiangular to a given triangle:
- 46. Through a given point to draw a straight line so that the parts of it intercepted between that point and perpendiculars drawn from two other given points may have a given ratio.
- 47. ABCD is a square, AC a diagonal, and E the middle point of AD. Shew that the intersection of BE with AC is a point of trisection of AC.

^{*} Special importance is attached to the accurate translation of the extract.