## UNIVERSITY OF LONDON

# GENERAL CERTIFICATE OF EDUCATION EXAMINATION

## Ordinary Level

SUMMER, 1960.

#### PURE MATHEMATICS.-II

#### (Syllabus B)

TUESDAY, June 28 .- Morning, 9.30 to 11.30

Credit will be given for the orderly presentation of material; candidates who neglect this essential will be penalised.

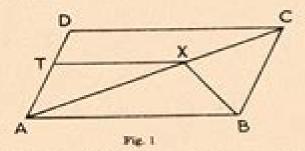
#### All necessary working must be shown

Answer all questions in Section A and THREE questions only in Section B.

#### SECTION A

- 1. (Tables may NOT be used for any part of this Question.)
  - (i) Find the value of 4-72.
- (ii) Given that  $\tan A = \frac{15}{8}$ , calculate  $\sin A$ .
- (iii) Find the value of  $5^{9} (49^{4} \times 3^{-3})$ .
- 2. (i) Use tables to evaluate  $\sqrt{(\sin 40^{\circ} + \tan 40^{\circ})}$ and  $\frac{10}{\cos 37^{\circ} 37^{\circ}}$ .
- (ii) In the triangle ABC, AB=AC. The bisector of the angle ABC meets AC at X. Given that the angle BXC=60°, calculate the angle BAC.
  - [P. T. O.

- 3. (i) Solve the equations  $\frac{x}{5} \frac{y}{3} = 2$ ,  $2x + 3y = 1\frac{1}{4}$ .
- (ii) An isosceles triangle has angles 46°, 67° and 67° and an area of 50 sq. cm. Calculate the length of its equal sides.
- 4. Using a scale of 1 in. to represent 10 units on both axes, plot the points A(-2, 10), B(14, -14) and C(48, 20). Using ruler and compasses only, construct the circle which passes through A, B and C. State the coordinates of the centre of this circle.
- 5. (i) Express  $\frac{2}{2n-1} \frac{1}{n}$  as a single fraction in its simplest form.



(ii) In Fig. 1, ABCD is a parallelogram, BX bisects the angle ABC and TX is parallel to AB. Given that AT=5 in. and TD=2 in., calculate the length of AB.

#### Sucrios B

Answer THRKE questions only in this section.

- 6. (i) Six cylindrical tins, each having a circular base of diameter 3 in. and each of height 5 in., are packed into a rectangular box whose internal measurements are 6 in. by 8 in. by 10 in. Calculate the volume of sawdust required to fill the remainder of the box. Give your answer in cu. in. and take w as 3\(\frac{1}{2}\).
- (ii) ABC is an isosceles triangle in which AB=AC. AB is produced to P so that B is the mid-point of AP. BC is produced to Q so that C is the mid-point of BQ. PC produced meets AQ at X. Prove that
  - (a) AQ = CP.
  - (b) CX = XQ.

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