

## 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  $4 \cdot 7^3$ .

(ii) Given that  $\tan A = \frac{15}{8}$ , calculate  $\sin A$ .

(iii) Find the value of  $5^3 - (49^{\frac{1}{2}} \times 3^{-2})$ .

2. (i) Use tables to evaluate  $\sqrt{(\sin 40^\circ + \tan 40^\circ)}$   
and  $\frac{10}{\cos 37^\circ 37'}$ .

(ii) In the triangle  $ABC$ ,  $AB = AC$ . The bisector of the angle  $ABC$  meets  $AC$  at  $X$ . Given that the angle  $BXC = 60^\circ$ , calculate the angle  $BAC$ .

3. (i) Solve the equations  $\frac{x}{2} - \frac{y}{3} = 2$ ,  $2x + 3y = 1\frac{1}{2}$ .

(ii) An isosceles triangle has angles  $46^\circ$ ,  $67^\circ$  and  $67^\circ$  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.



Fig. 1

(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  $AB$ .

#### SECTION B

*Answer THREE 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  $\pi$  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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**Michael Brown**



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