

# Cambridge O Level MATHEMATICS (SYLLABUS D) 4024

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Paper 1 Non-calculator

October/November 2025

Questions (3-4)

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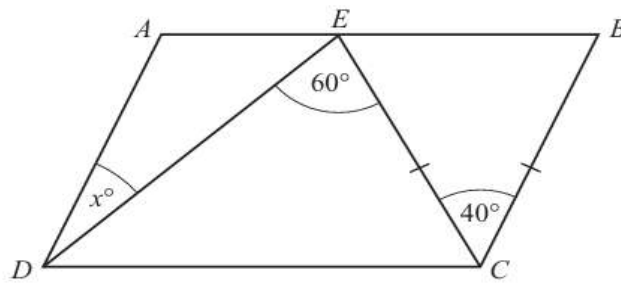
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NOT TO  
SCALE

$ABCD$  is a parallelogram.  
 $E$  is a point on  $AB$  and  $EC = BC$ .  
 Angle  $ECB = 40^\circ$  and angle  $DEC = 60^\circ$ .

Find the value of  $x$ .

$x = \dots\dots\dots$  [4]

**Solution:**

As  $BCE$  is an isosceles triangle  $\therefore CE = CB$

$\Rightarrow \hat{BEC} = \hat{EBC}$

As  $BCE$  is triangle

$$\hat{BEC} + \hat{EBC} + 40 = 180$$

$$2\hat{BEC} + 40 = 180$$

$$\hat{BEC} = \frac{180 - 40}{2}$$

$$\hat{BEC} = 70$$

As  $AB$  is parallel to  $CD$ ,

$\therefore \hat{ECD} = \hat{BEC}$  (alternate  $\angle$ s)

$$\Rightarrow \hat{ECD} = 70^\circ$$

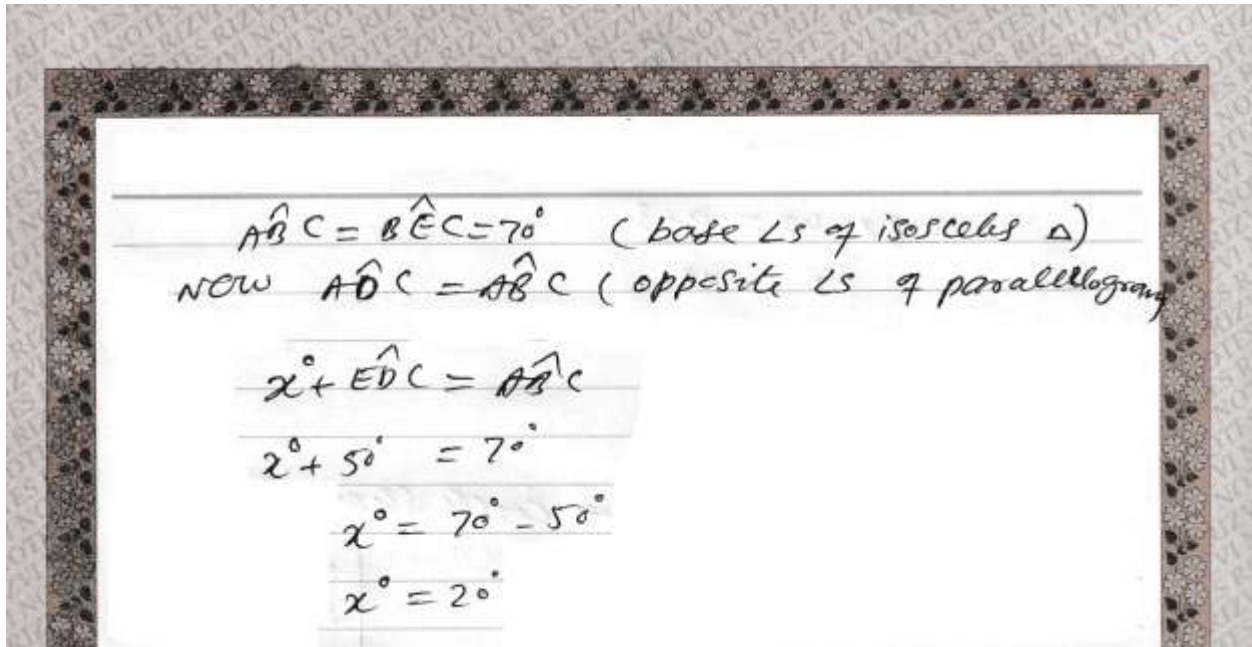
In  $\triangle DEC$ ,

$$\hat{ECD} + 60 + \hat{EDC} = 180 \quad (\angle \text{sum of } \triangle \text{ angle})$$

$$70 + 60 + \hat{EDC} = 180$$

$$\hat{EDC} = 180 - 70 - 60$$

$$\hat{EDC} = 50$$



- 4 Petra thinks of a number.  
The number is a multiple of 7.

Petra says:

When I write my number correct to the nearest ten it is 30.

Find the number that Petra thinks of.

..... [2]

**Solution:**

