

Paper Reference 9MA0/01
Pearson Edexcel Level 3 GCE

Mathematics

Advanced
PAPER 1: Pure Mathematics 1
Wednesday 4 June 2025 – Afternoon

Time: 2 hours

Diagram Booklet

**THIS DOCUMENT MUST BE
RETURNED TO PEARSON AT THE
END OF THE EXAMINATION.**

In the boxes below, write your name,
centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams.

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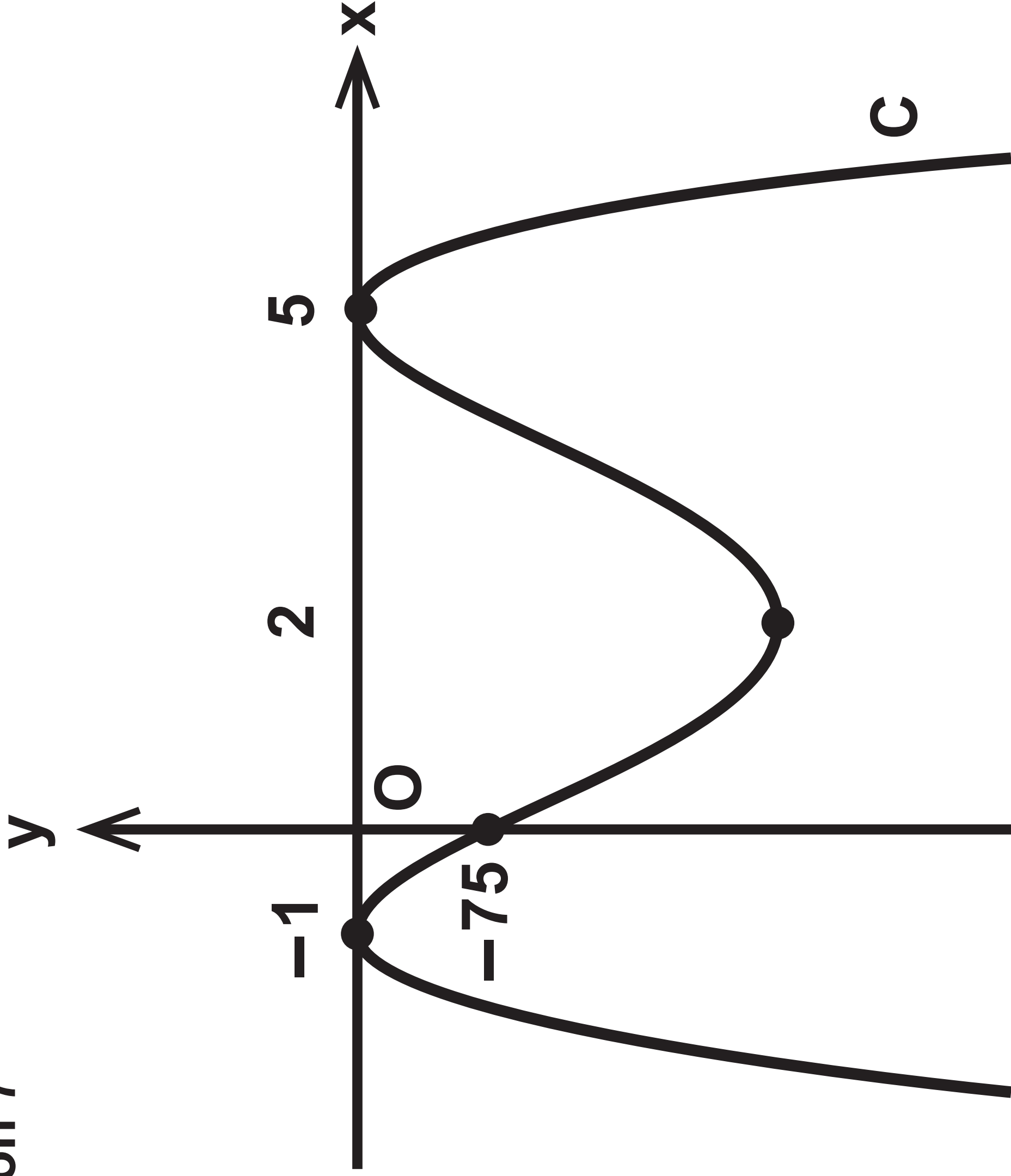
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Spare Copies

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Question 7



Question 8

Let $m = 5k$

Consider $m^2 = (5k)^2 = 25k^2 = 5 \times 5k^2 = 5n$
 where $n = 5k^2$ ✓

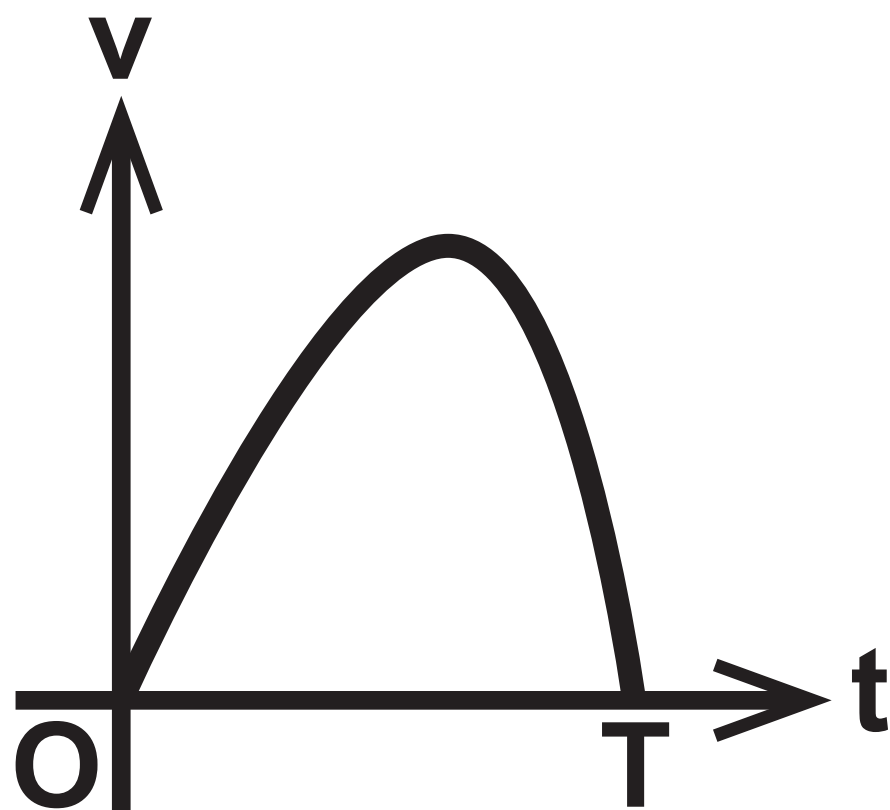
Let $m = 5k + 1$

Consider $m^2 = (5k + 1)^2$
 $= 25k^2 + 10k + 1 = 5(5k^2 + 2k) + 1 = 5n + 1$
 where $n = 5k^2 + 2k$ ✓

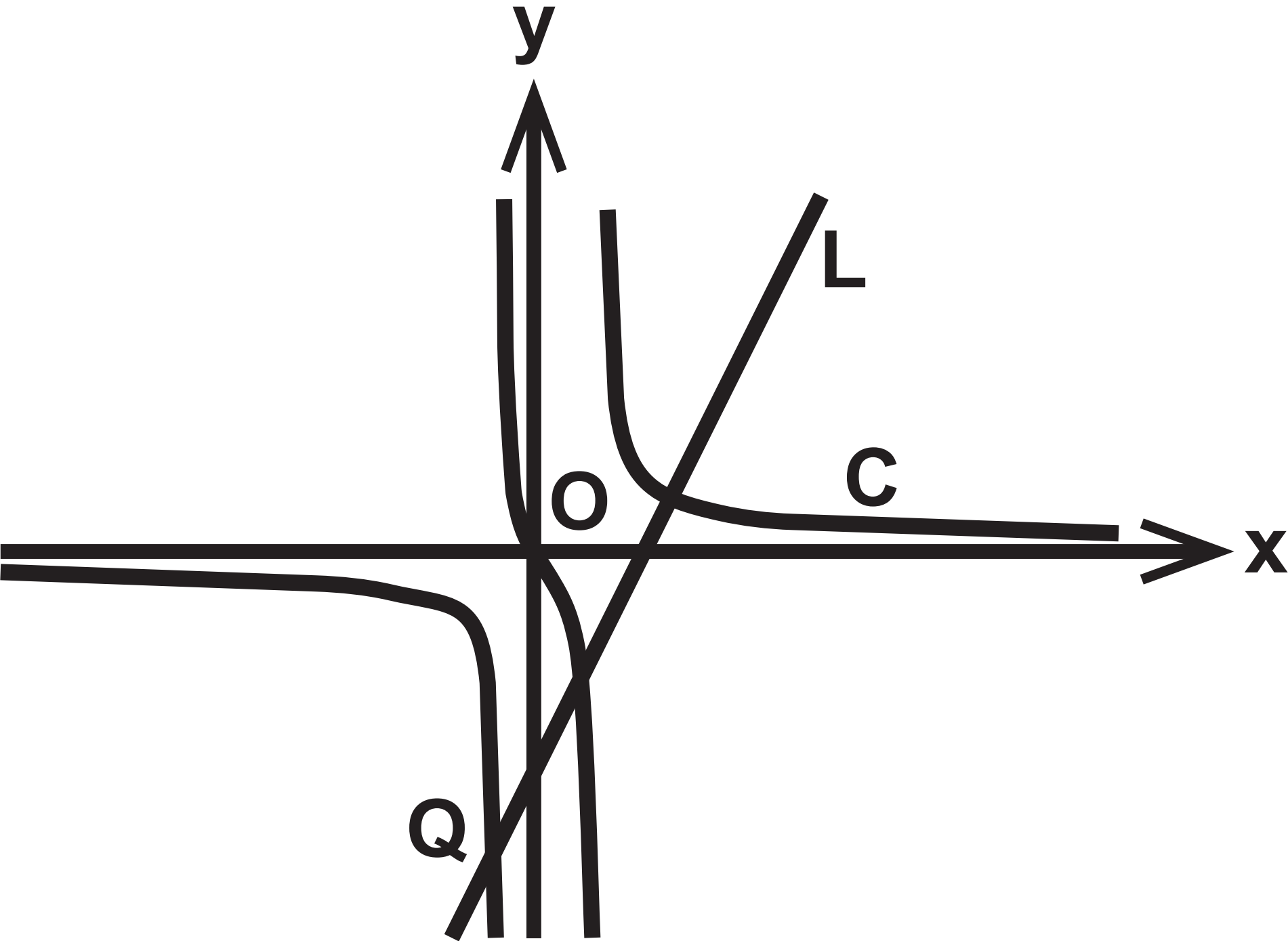
Let $m = 5k + 2$

Consider $m^2 = (5k + 2)^2$
 $= 25k^2 + 10k + 4 = 5(5k^2 + 2k + 1) - 1 = 5n - 1$
 where $n = 5k^2 + 2k + 1$ ✓

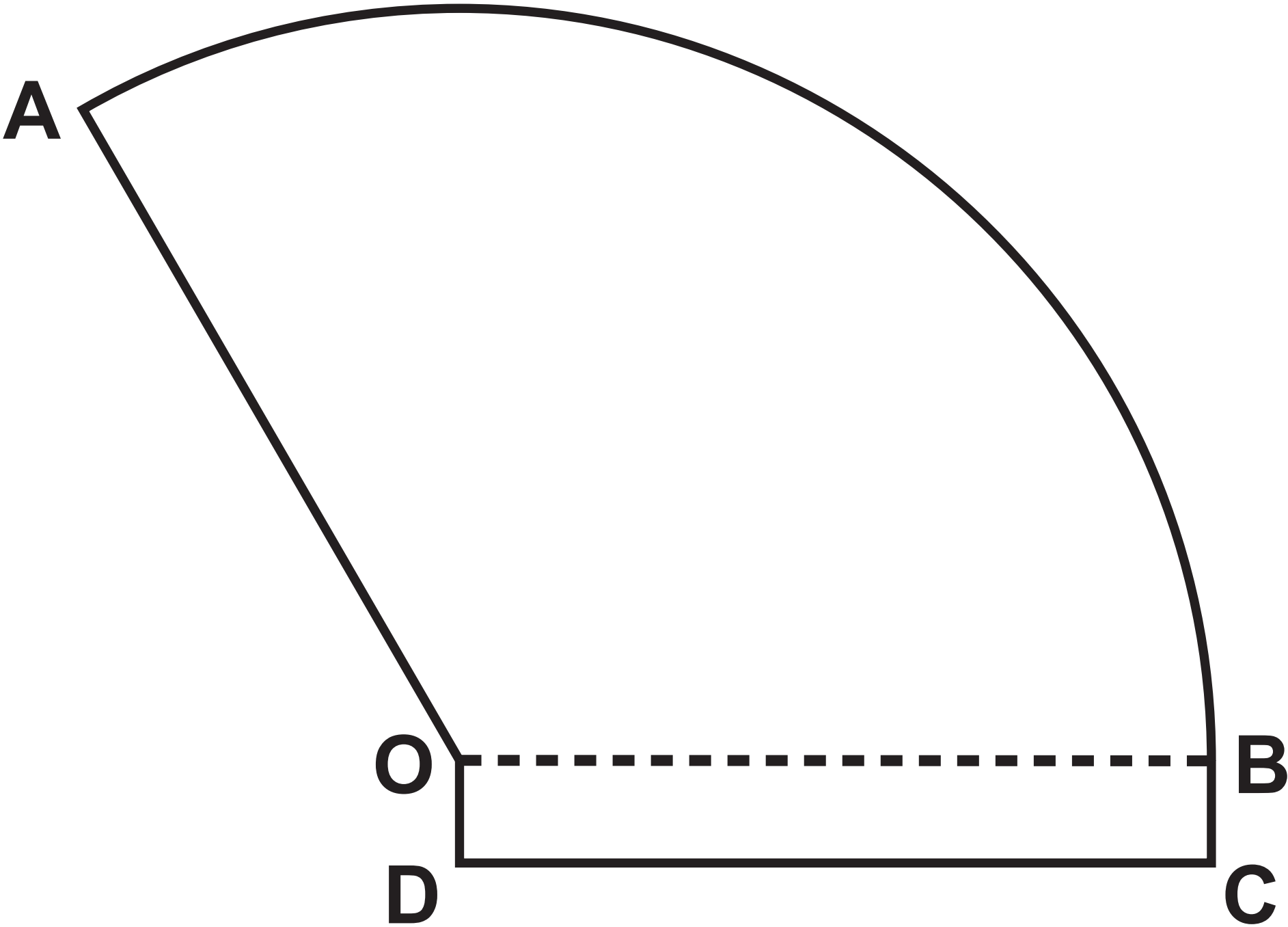
Question 9



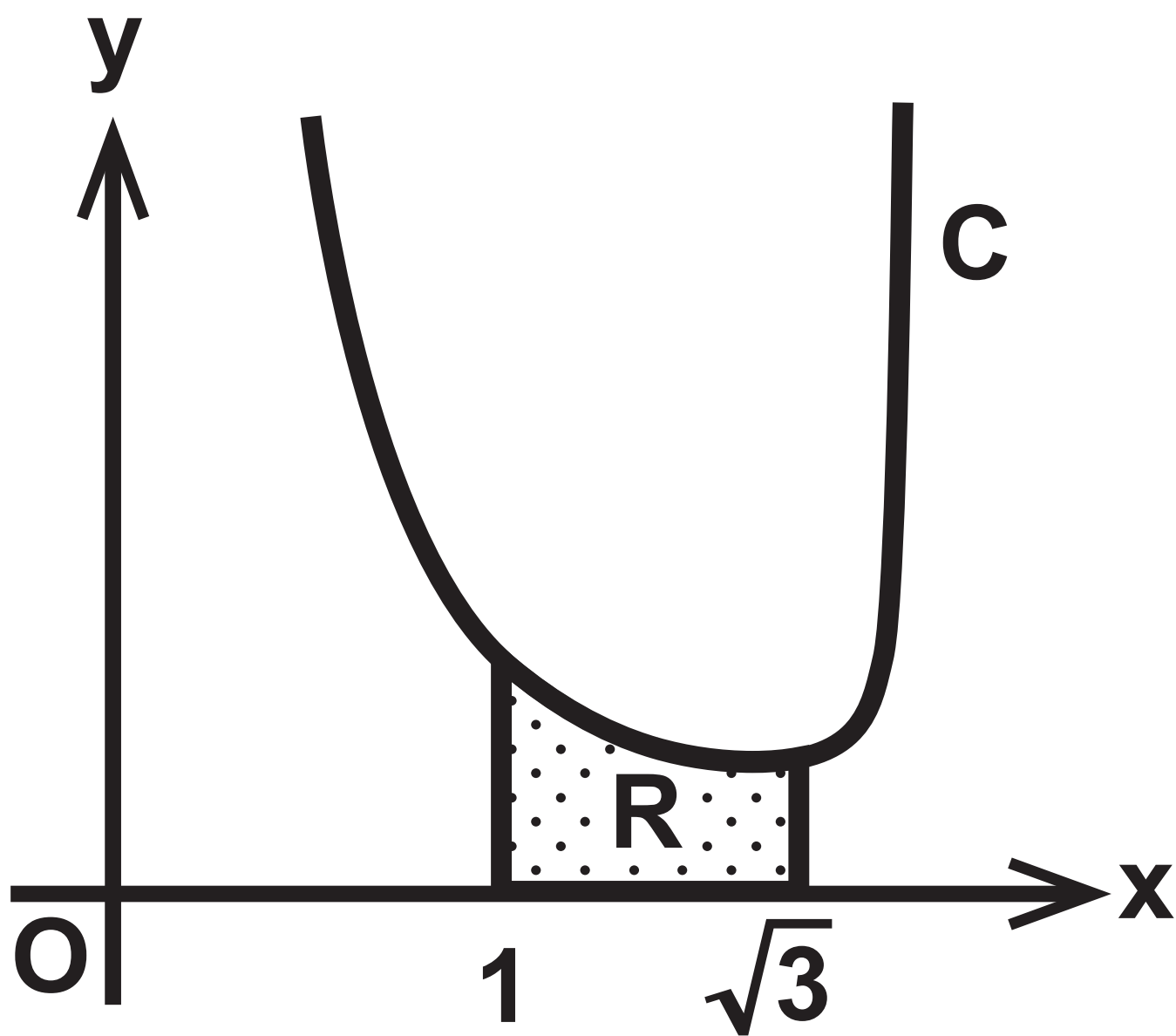
Question 12



Question 15



Question 16



Question 8 – spare copy

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