

Algebra functions – A2 Mathematics P2

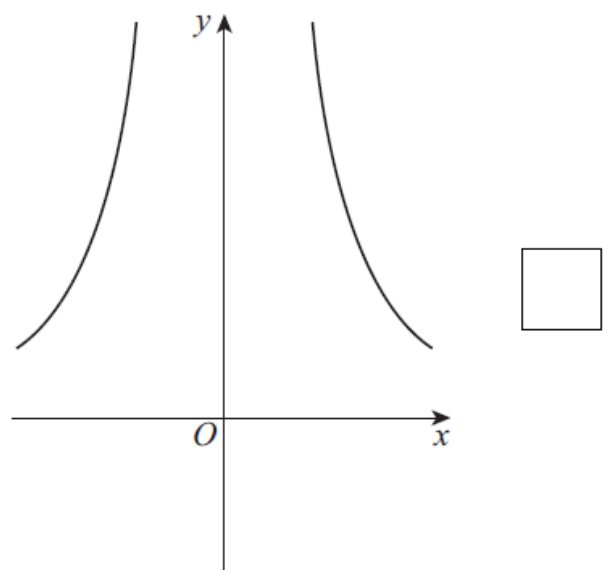
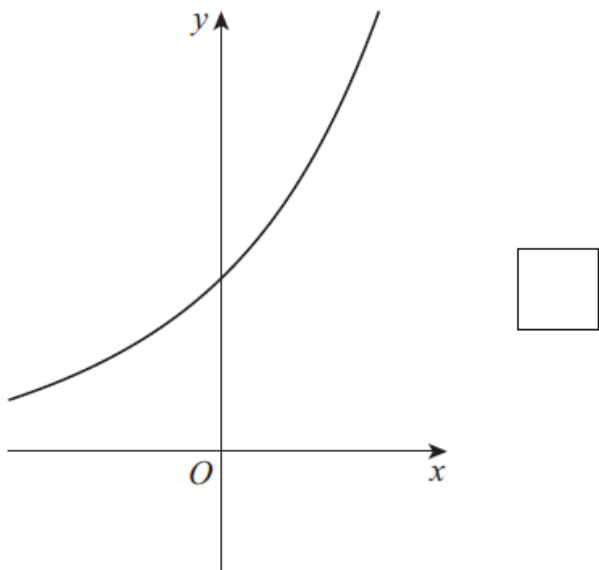
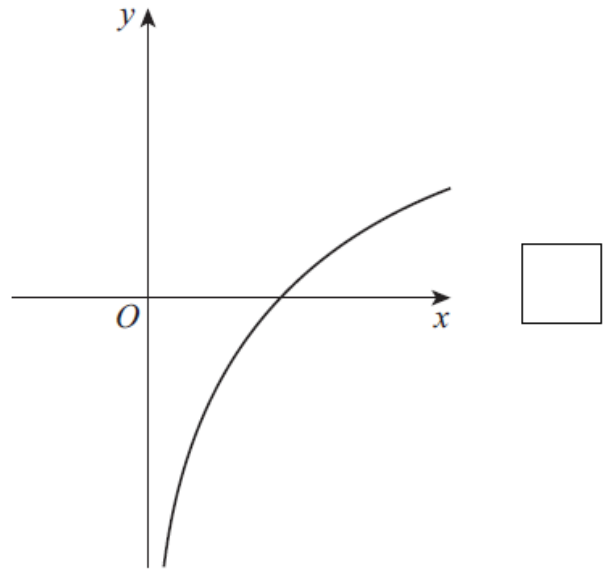
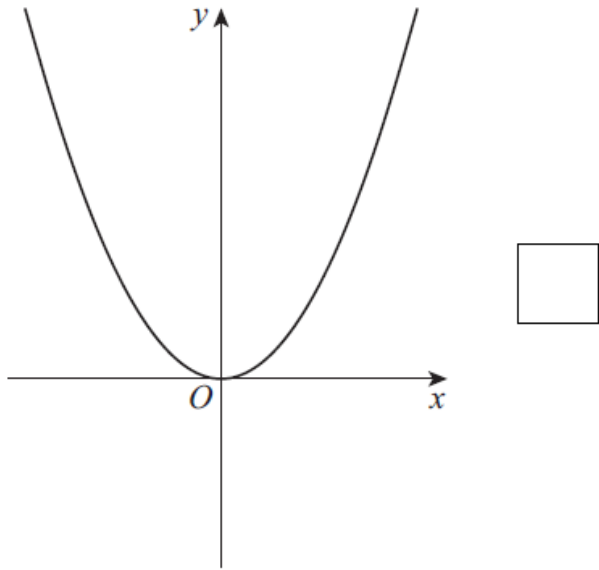
1. June/2022/Paper_7357/02/No.3

The function f is concave and is represented by one of the graphs below.

Identify the graph which represents f .

Tick (✓) **one** box.

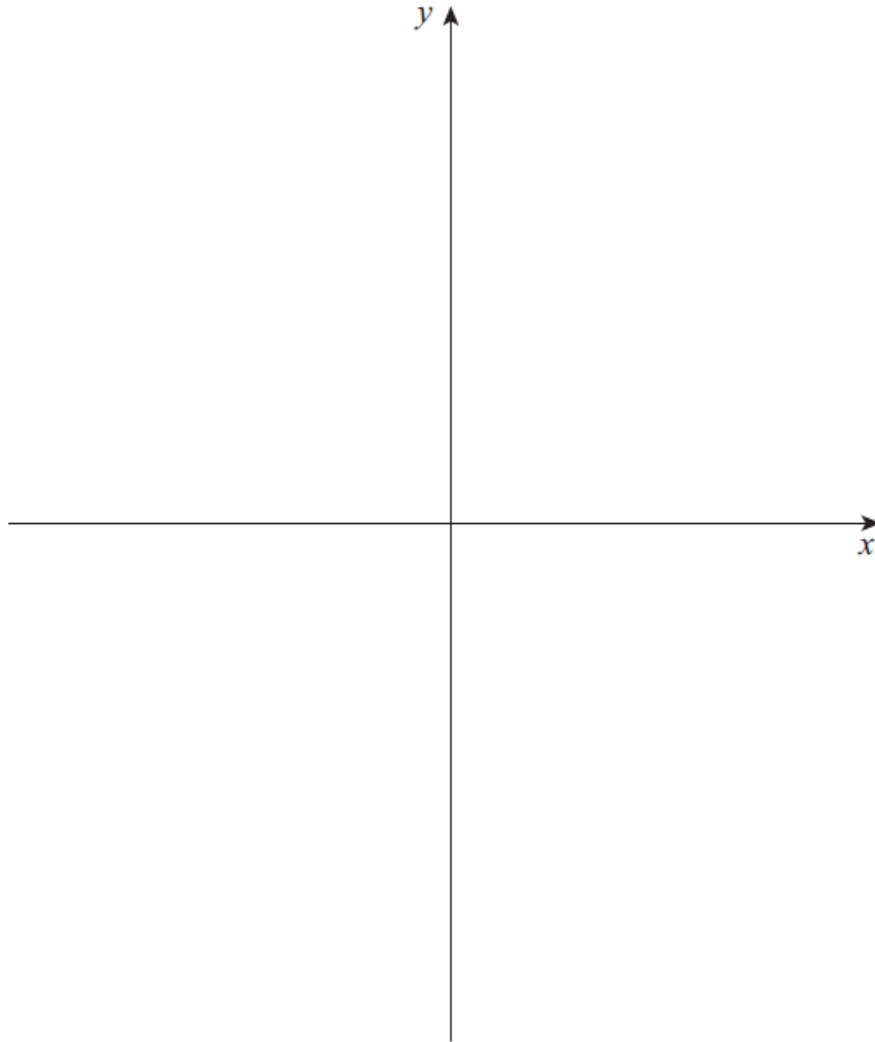
[1 mark]



2. June/2022/Paper_7357/02/No.8

(a) Sketch the graph of $y = \frac{1}{x^2}$

[2 marks]



- (b) The graph of $y = \frac{1}{x^2}$ can be transformed onto the graph of $y = \frac{9}{x^2}$ using a stretch in one direction.

Beth thinks the stretch should be in the y -direction.

Paul thinks the stretch should be in the x -direction.

State, giving reasons for your answer, whether Beth is correct, Paul is correct, both are correct or neither is correct.

[3 marks]
