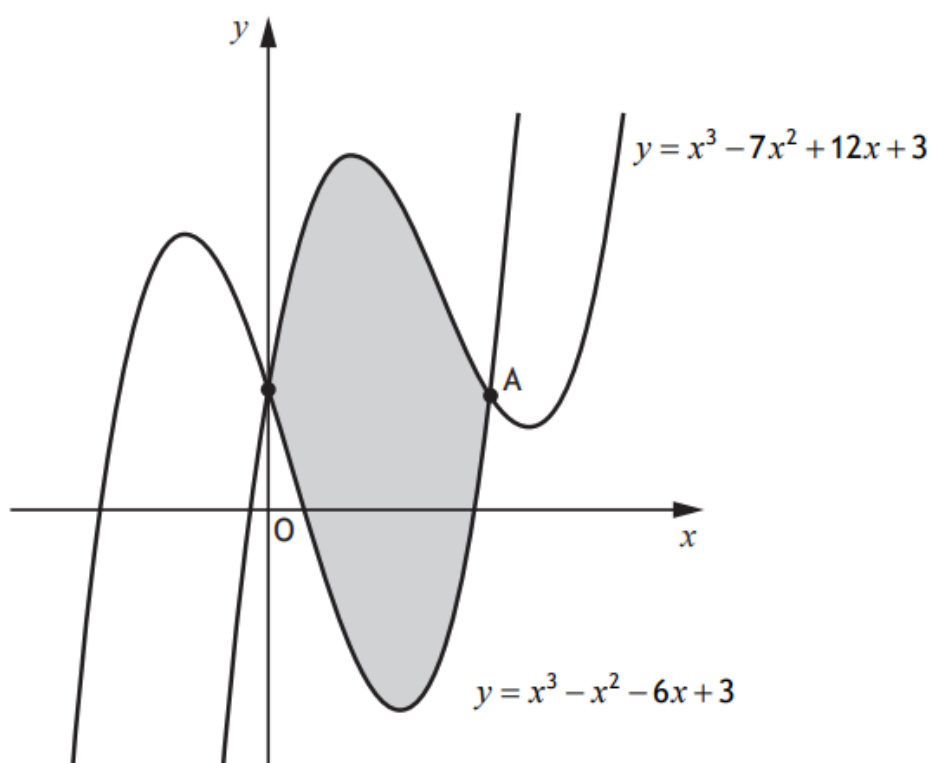


Higher Maths  
SQA 2021 Paper 1  
Question 9



The diagram shows the curves with equations  $y = x^3 - 7x^2 + 12x + 3$  and  $y = x^3 - x^2 - 6x + 3$ .

The curves intersect on the  $y$ -axis and at point A.



- (a) Find the  $x$ -coordinate of A. 2
- (b) Calculate the shaded area. 5

Answers:

- (a)  $x = 3$
- (b) 27 (units<sup>2</sup>)