



Maths
Leaving Certificate
Ordinary Level

Past Exam Questions on
Co-ordinate Geometry

Q4 2012 Paper 2 Section A

Question 4

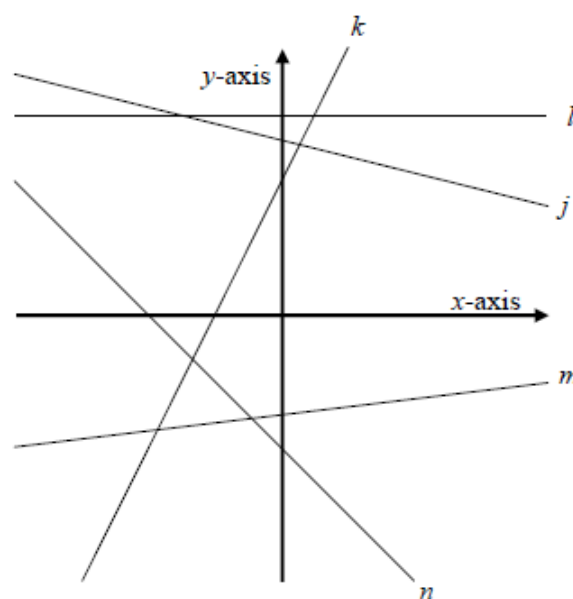
(25 marks)

- (a) Five lines j , k , l , m , and n in the co-ordinate plane are shown in the diagram.

The slopes of the five lines are in the table below.

Complete the table, matching the lines to their slopes.

slope	line
2	
$\frac{1}{8}$	
0	
$-\frac{1}{4}$	
-1	



- (b) The diagram shows four circles of equal radius. The circles are touching as shown.

The equation of c_1 is $x^2 + y^2 = 9$.

- (i) Write down the radius of c_1 .

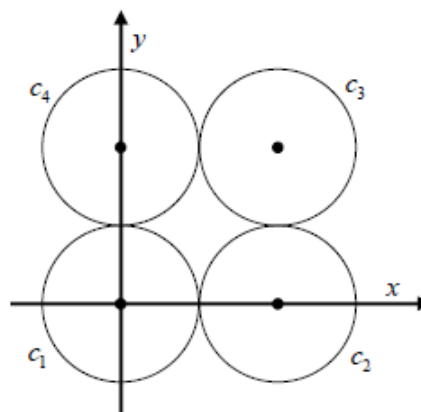
Answer: _____

- (ii) Write down the co-ordinates of the centre of c_3 .

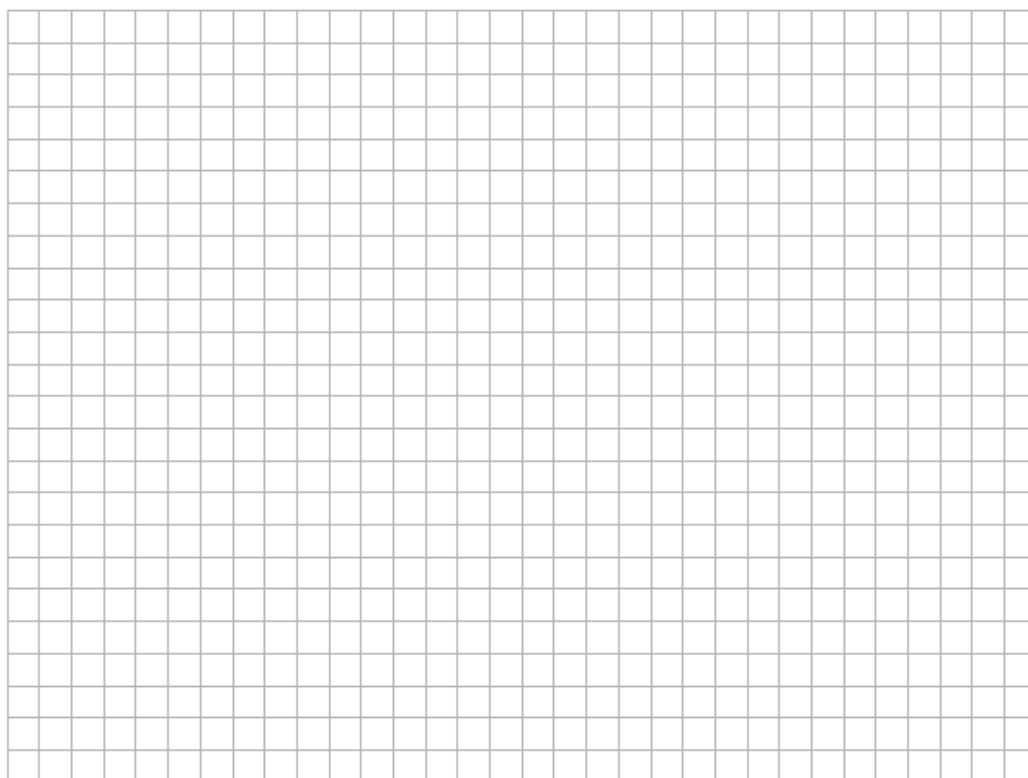
Answer: _____

- (iii) Write down the equation of c_3 .

Answer: _____



- (c) Use one of the ways you have described to show that $ABCD$ is a parallelogram.



Q3 2011 Paper 2 Sample Section A

Question 3

(25 marks)

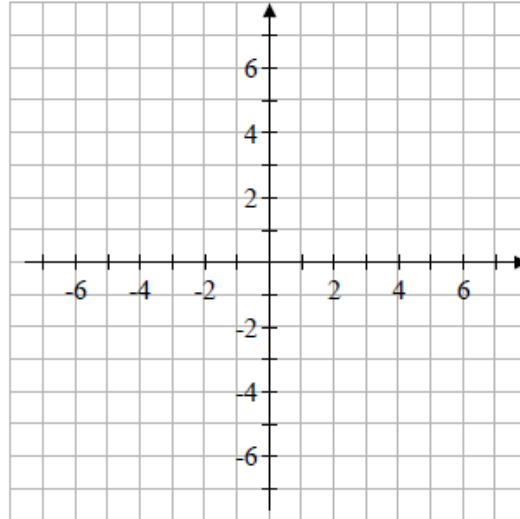
The points A , B , and C have co-ordinates as follows:

$$A(3, 5)$$

$$B(-6, 2)$$

$$C(4, -4)$$

- (a) Plot A , B , and C on the diagram.



- (b) Find the equation of the line AB .



- (c) Find the area of the triangle ABC .

