



**Maths
Junior Certificate
Higher Level**

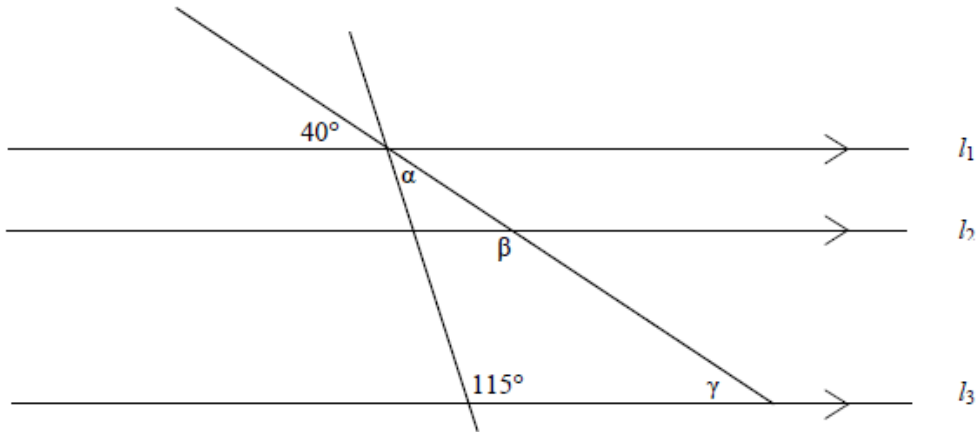
**Past Exam Questions on
PM Geometry**

Q9 2013 Paper 2 Section A

Question 9

(Suggested maximum time: 5 minutes)

If l_1 , l_2 and l_3 are parallel lines, find the measure of the angles α , β and γ .

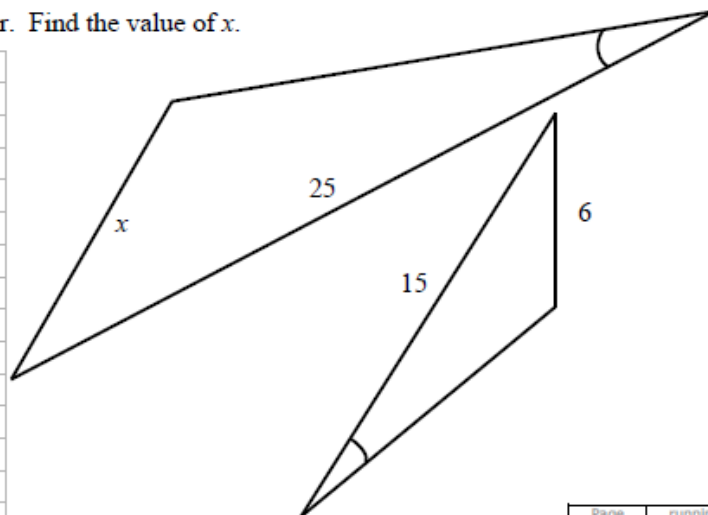


Q11 2013 Paper 2

Question 11

(Suggested maximum time: 5 minutes)

The two triangles shown are similar. Find the value of x .

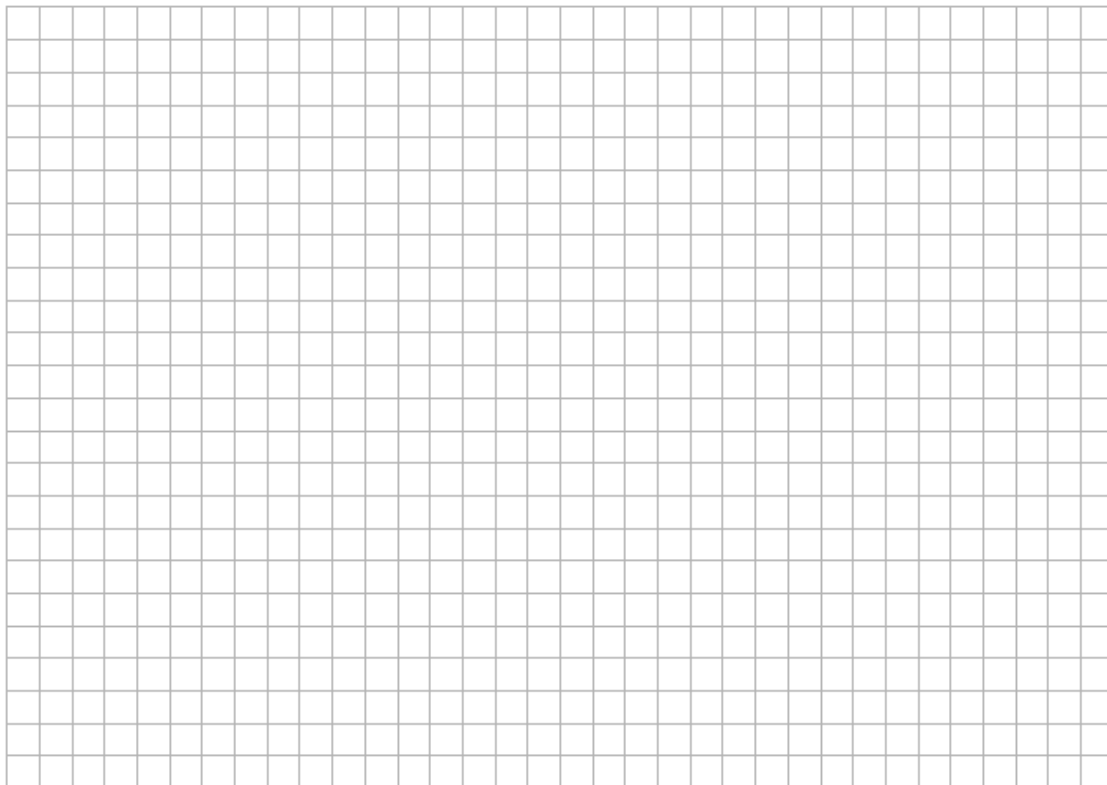
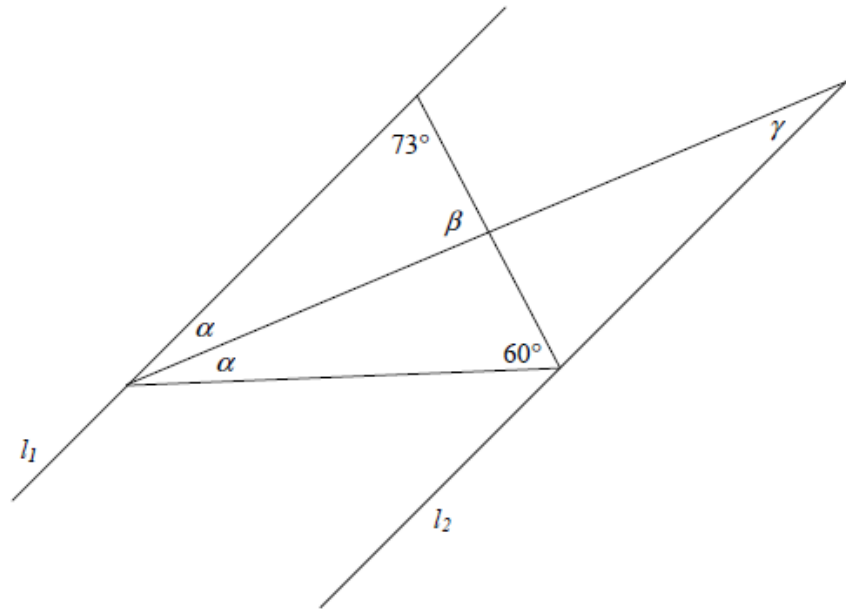


Q11 2012 Paper 2 Sample Paper

Question 11

(Suggested maximum time: 5 minutes)

If $l_1 \parallel l_2$, find the angles α , β and γ in the following diagram.



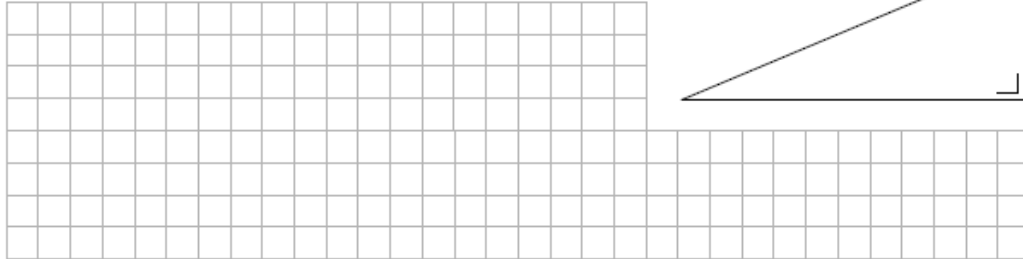
Q17 2012 Paper 2 Sample Paper

Question 17

(Suggested maximum time: 5 minutes)

In a right-angled triangle, one of the acute angles is four times as large as the other acute angle.

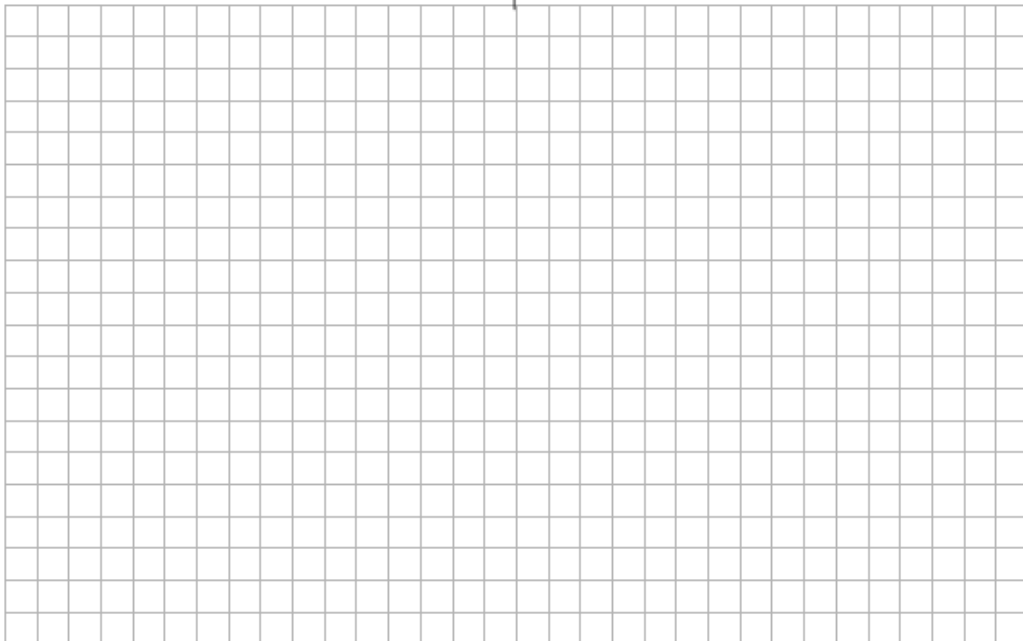
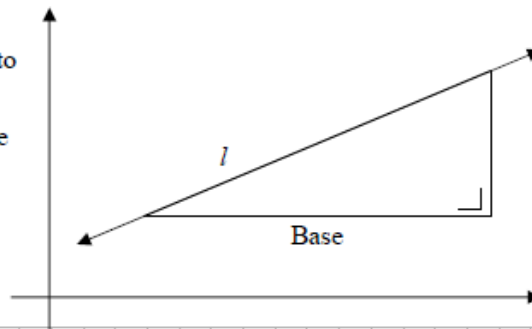
- (a) Find the measures of the two acute angles in the triangle.



- (b) The triangle in part (a) is placed on a co-ordinate diagram. The base is parallel to the x -axis.

Find the slope of the line l that contains the hypotenuse of the triangle.

Give your answer correct to three decimal places.

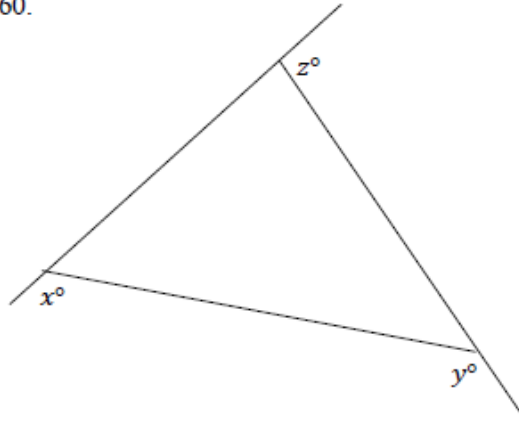


Q15 2012 Paper 2

Question 15

(Suggested maximum time: 5 minutes)

- (a) Prove that $x + y + z = 360$.



- (b) The diagram below shows a parallelogram and one exterior angle. Find the value of a and the value of b .

