

Modulus of Linear Function Difficulty: Medium

Question Paper 2

Level	A Level
Subject	Maths Pure 3
Exam Board	CIE
Topic	Algebra
Sub-Topic	Modulus of Linear Function
Difficulty	Medium
Booklet	Question Paper 2

Time allowed: 39 minutes

Score: /28

Percentage: /100

Grade Boundaries:

A*	А	В	С	D	E	
>90%	81%	70%	58%	46%	34%	

1

Solve the inequality |x + 3a| > 2|x - 2a|, where a is a positive constant. [4]

Question 2

Solve the inequality |x-3| > 2|x+1|. [4]

Solve the inequality |4x + 3| > |x|.

[4]

Question 4

Find the set of values of x satisfying the inequality

$$|x + 2a| > 3|x - a|,$$

where a is a positive constant.

[4]



Given that a is a positive constant, solve the inequality

$$|x - 3a| > |x - a|. \tag{4}$$

Question 6

Solve the inequality 2|x-3| > |3x+1|.

[4]

Question 7



Find the set of values of x satisfying the inequality 3|x-1| < |2x+1|.

[4]