

AQA Qualifications

GCSE MATHEMATICS

Topic tests - Higher tier - Algebra

Name



1 (a) Solve 5(x-2) = 35

[3 marks]

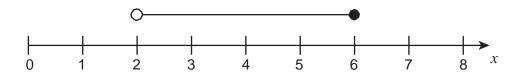
x =

1 (b) Solve 9y + 1 = 6y + 13

[3 marks]

2 (a) Circle the inequality shown by the diagram.

[1 mark]



- 2 < x < 6 $2 \le x < 6$ $2 \le x \le 6$ $2 \le x \le 6$

Write down the integer values satisfied by this diagram. 2 (b)

[2 marks]



Answer

3	A straight line passes through the points (-2, 0) and (0, 6).		
	Work out the equation of the line. [3 mar	ks]	
	Answer		

4	Factorise	$x^2 + 9x + 14$	[2 marks]

Answer _____

Rearrange	4(2x + y) = 11 + 7y	to make x the subject.	[3 mar
	Answer		

6 Solve the simultaneous equations

$$2x + 4y = 1$$
$$3x - 5y = 7$$

Do **not** use trial and improvement.

	[4 marks]		
<i>x</i> =			



$(ax + b)(bx + a) \equiv 10x^2 + cx + 10$	where a and b are positive integers.	
Find the two possible values of c .		[4 ma
Answer	or	

END OF QUESTIONS

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