## $A Q A^{E}$

AQA Qualifications

## GCSE MATHEMATICS

Topic tests - Higher tier - Algebra

## Name



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

$$
x=
$$

1 (b) Solve $9 y+1=6 y+13$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$y=$

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


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


Answer
$3 \quad$ A straight line passes through the points $(-2,0)$ and $(0,6)$.
Work out the equation of the line.

5 Rearrange $4(2 x+y)=11+7 y$ to make $x$ the subject.

$$
\begin{aligned}
& 2 x+4 y=1 \\
& 3 x-5 y=7
\end{aligned}
$$

Do not use trial and improvement.
You must show your working.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ $x=$ $\qquad$
$y=$

Find the two possible values of $c$.
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$\qquad$
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$\qquad$
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$\qquad$

Answer or

## END OF QUESTIONS

