Name:

# GCSE (1-9) <br> Angles in Parallel Lines 

## Instructions

- Use black ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.


## Information

- The marks for each Question are shown in brackets
- use this as a guide as to how much time to spend on each Question.


## Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

(a) Write down the size of angle $x$.
$\qquad$
(b) Give a reason for your answer.
$\qquad$
$\qquad$
(c) Write down the size of angle $y$. $\qquad$
(d) Give a reason for your answer.
$\qquad$
$\qquad$

2


An angle of $110^{\circ}$ is shown on the diagram.
(a) Write down the letter of one other angle of size $110^{\circ}$
$\qquad$
(b) Give a reason for your answer.
$\qquad$
$\qquad$

3

$A B$ and $C D$ are parallel lines.
(a) Find the size of angle $x$
$\qquad$
(b) Give a reason for your answer.

$A B C D$ is a parallelogram.
$C B E$ is a straight line.
Angle $B A D=128^{\circ}$
Angle $A E B=39^{\circ}$
Find the size of angle $B A E$.
Give a reason for each stage of your working.
$\qquad$

$A B$ and $C D$ are parallel lines.
$E F G$ is an isosceles triangle
Angle $A E G=110^{\circ}$
Find the size of angle $F G D$.
Give a reason for each stage of your working.
$\qquad$

6

$A B$ and $C D$ are parallel.
Angle $H I K=85^{\circ}$
Angle $B F H=32^{\circ}$
Find the size of angle $F E G$.
You must show how you got your answer.
$\qquad$
..

$A B$ and $C D$ are parallel.
Find the size of angle $x$.
Give a reason for each stage of your working.
$\qquad$

$A B C D$ is a parallelogram.
Angle $D A E=63^{\circ}$
Angle $B C D=124^{\circ}$
Angle $C B D=25^{\circ}$
Calculate the size of angle $x$.
Give reasons for each stage of your answer.
$\qquad$

