

1st Year Angles Test

$$\frac{40}{40} = 100\%$$

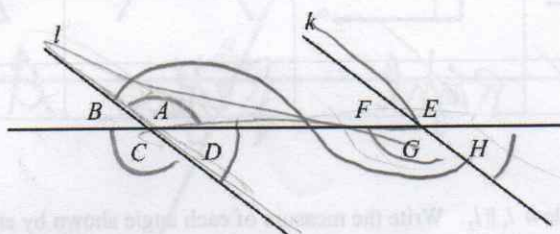
studyclix

Name:

Oisin Argand

Question 1

In the diagram below, the line l is parallel to the line k .
The angles A, B, C, D, E, F, G , and H are marked on the diagram.



- (i) Write down a pair of angles that are **vertically opposite**: \boxed{A} and \boxed{C} .
- (ii) Write down a pair of angles that are **corresponding**: \boxed{D} and \boxed{H} .
- (iii) Write down a pair of angles that are **alternate**: \boxed{A} and \boxed{G} .

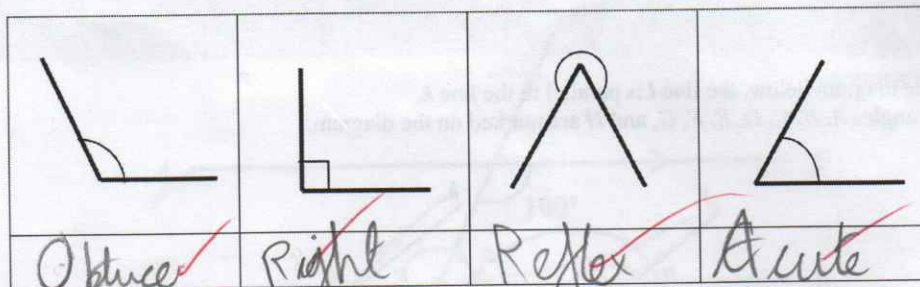
- (iv) Given $|\angle A| = 137^\circ$, find the measure of the angles G and H .

$\begin{array}{r} 137 \\ -137 \\ \hline 0 \end{array}$	$\begin{array}{r} 137 \\ -137 \\ \hline 0 \end{array}$
$ \angle G = 43^\circ$	$ \angle H = 43^\circ$

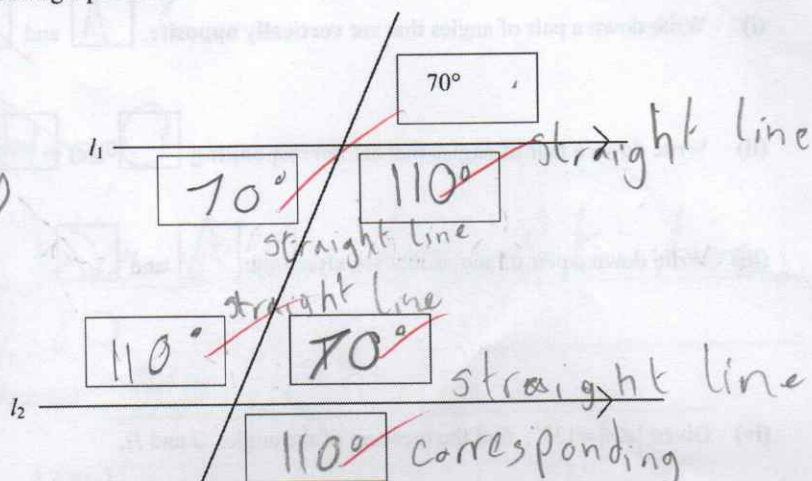
$$\frac{10}{10}$$

Question 2

- (a) Four angles are shown below. Write in the space below each diagram whether the angle is straight, acute, obtuse, right or reflex.



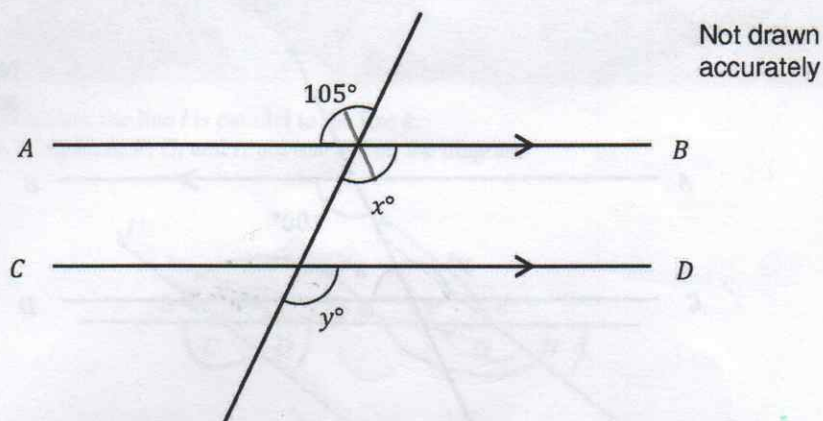
- (b) In the diagram below $l_1 \parallel l_2$. Write the measure of each angle shown by an empty box into the diagram, without using a protractor.



$$180 - 70 = 110$$

10
10

- 1 In the diagram below, AB is parallel to line CD .



- 1(a) Find the value of x
Give a reason for your answer.

[2 marks]

$x = 105^\circ$ because it's vertically opposite to the 105° angle

Answer $x = 105^\circ$

- 1(b) Find the value of y
Give a reason for your answer.

[2 marks]

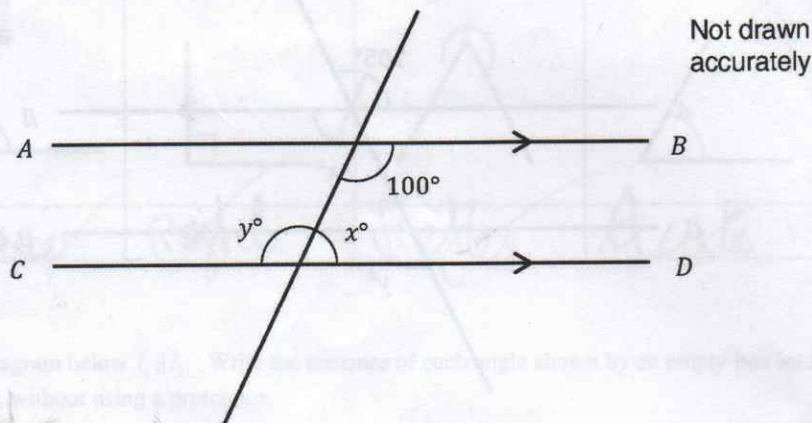
$y = 105^\circ$ because of corresponding angles, it corresponds with x

Answer $y = 105^\circ$

$\frac{10}{10}$

Turn over for next question

2

In the diagram below, AB is parallel to line CD .

2(a)

Find the value of x

Give a reason for your answer.

[2 marks]

$x = 80^\circ$ because of straight line,
 $180 - 100 = 80$
 Answer $x = 80^\circ$

2(b)

Find the value of y

Give a reason for your answer.

[2 marks]

$y = 100^\circ$ because of alternate angles,
 it's alternate to the 100° angle
 Answer $y = 100^\circ$

Turn over for next question

$$\frac{10}{10}$$

Turn over ►