

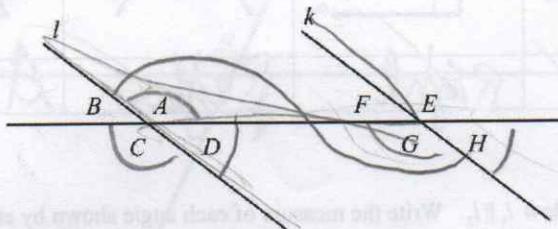
$$\frac{40}{40} = 100\%$$

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:  A and  C.
- (ii) Write down a pair of angles that are corresponding:  D and  H.
- (iii) Write down a pair of angles that are alternate:  A and  C.
- (iv) Given  $|\angle A| = 137^\circ$ , find the measure of the angles  $G$  and  $H$ .

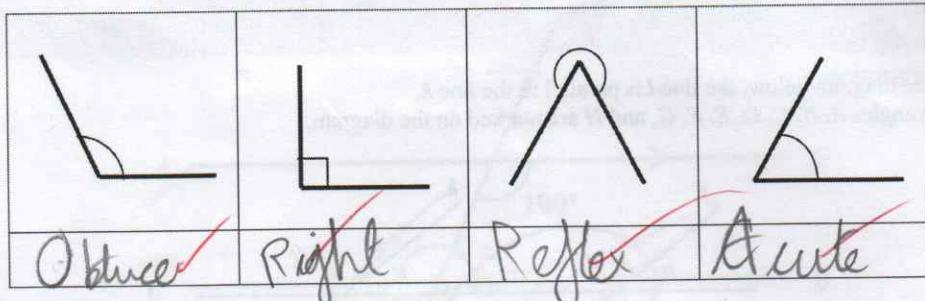
|                         |                         |
|-------------------------|-------------------------|
| $-137^\circ$            | $-137^\circ$            |
| $43^\circ$              | $43^\circ$              |
| $ \angle G  = 43^\circ$ | $ \angle H  = 43^\circ$ |

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

Question 2

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

a



I

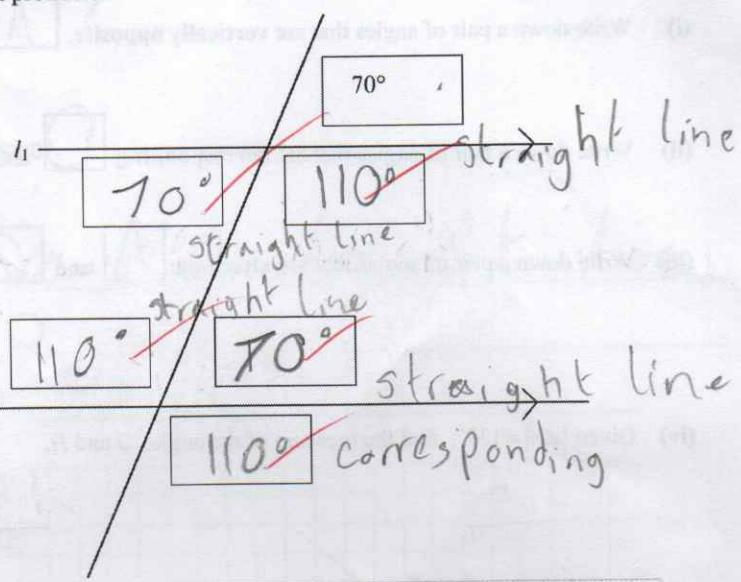
b

- 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.

E

G

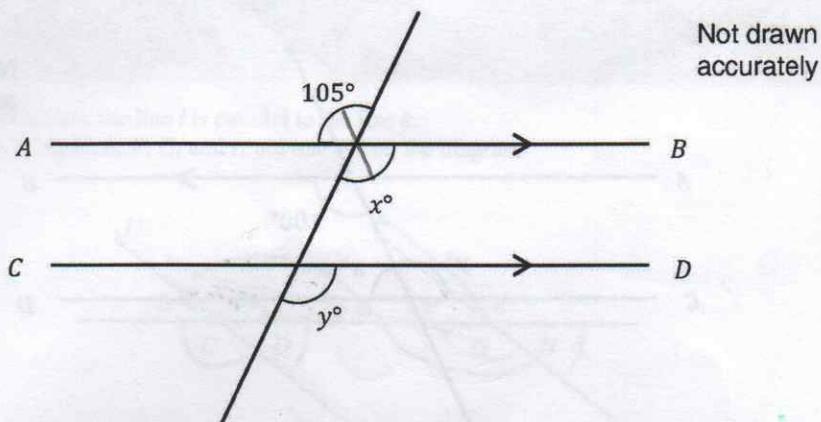
No one talk about cars, forget these wide-eyed cars. I'm here  
no one can hear me



$$180 - 70 = 110$$

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

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



Not drawn  
accurately

- 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  $105^\circ$  angle

Answer

$$\underline{x = 105^\circ}$$

- 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

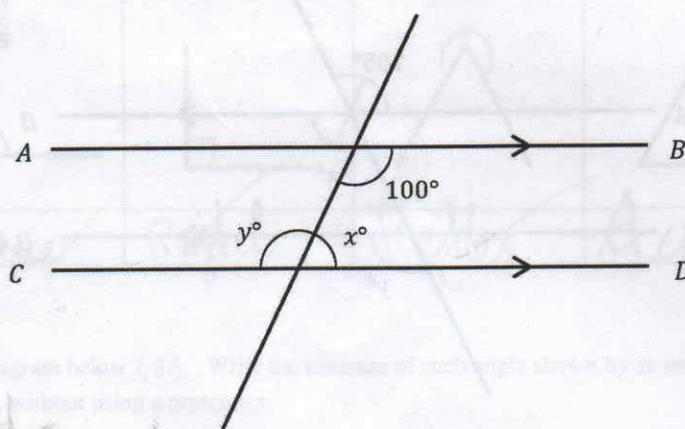
$$\underline{y = 105^\circ}$$

$\frac{10}{10}$

Turn over for next question

**2**

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



Not drawn accurately

**2(a)**

Find the value of  $x$

Give a reason for your answer.

[2 marks]

$$\begin{aligned} x &= 80^\circ \text{ because of straight line,} \\ 180 - 100 &= 80 \\ \text{Answer } x &= 80^\circ \end{aligned}$$

**2(b)**

Find the value of  $y$

Give a reason for your answer.

[2 marks]

$$\begin{aligned} y &= 100^\circ \text{ because of alternate angles,} \\ \text{it is alternate to the } 100^\circ \text{ angle} \\ \text{Answer } y &= 100^\circ \end{aligned}$$

10  
—  
10

Turn over for next question