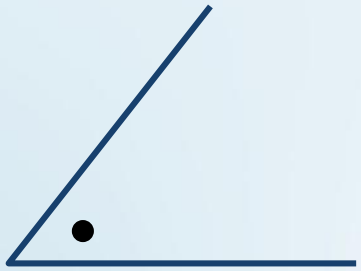
Angles

- Revising Basic Angles
- Naming Angles
- Calculating Missing angles
- Angles in a Triangle
- Corresponding Angles
- Alternate Angles

Type of Angles

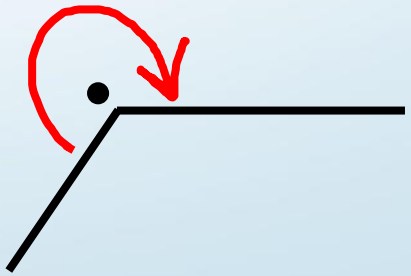


Acute
less than 90°

Right - Angle
exactly 90°

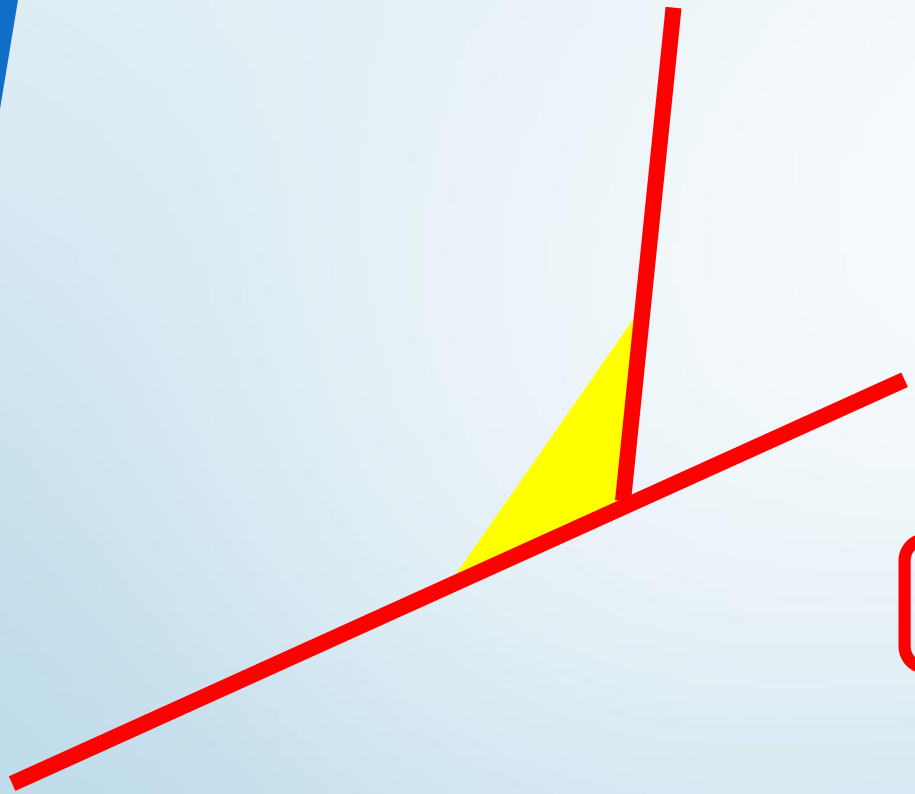
Obtuse
Between 90° – 180°

Straight Line Angle
exactly 180°



reflex
over 180° less than 360°

QUESTION TIME!



The angle highlighted is:

A Acute

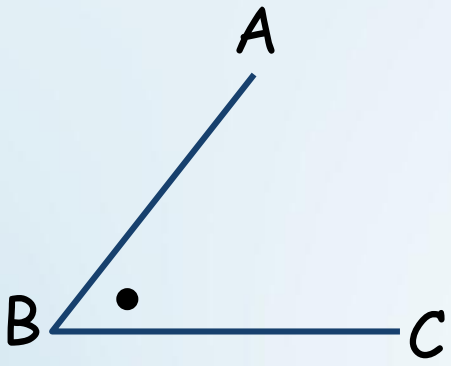
B Right Angled

C Obtuse

D Straight

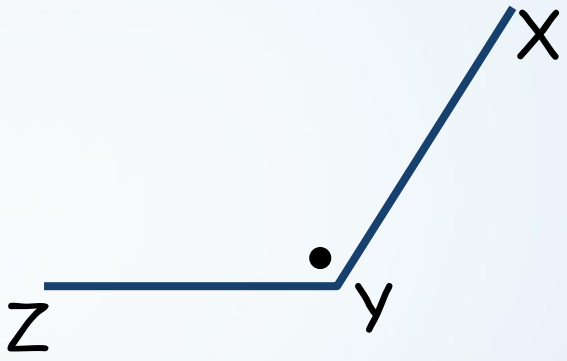
E Reflex

Naming Angles



Type of angle is acute

Name of angle is ∠ ABC
Or ∠ CBA



Type of angle is obtuse

Name of angle is ∠ ZYX
Or ∠ XYZ

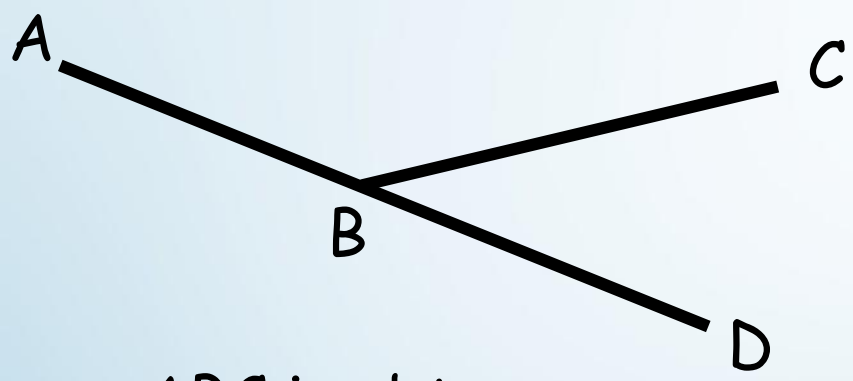
MIDDLE LETTER IS ALWAYS THE VERTEX

ALWAYS 3 CAPITAL LETTERS

Examples

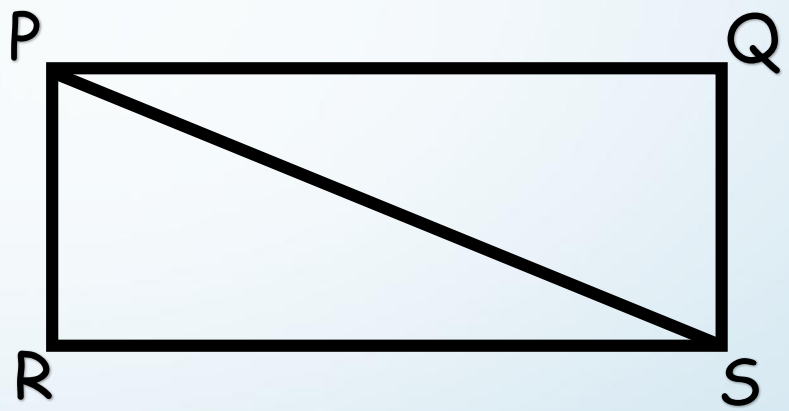
Name & state the type of angle for each shape below:-

1.



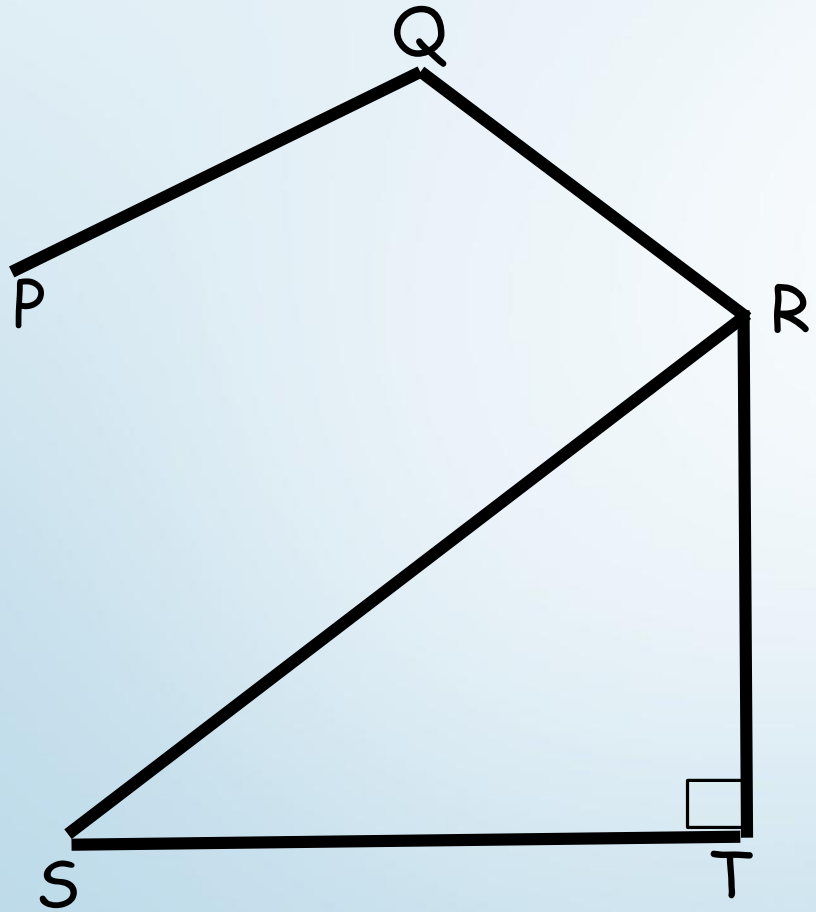
∠ ABC is obtuse
∠ CBD is acute
∠ ABD is straight

2.



∠ PQS is right angled
∠ PRS is right angled
∠ PSR is acute
∠ RPS is acute
∠ PSQ is acute
∠ QPS is acute

QUESTION TIME!



Which Statement is FALSE?

A ∠ PQR is Obtuse

B ∠ QRS is Obtuse

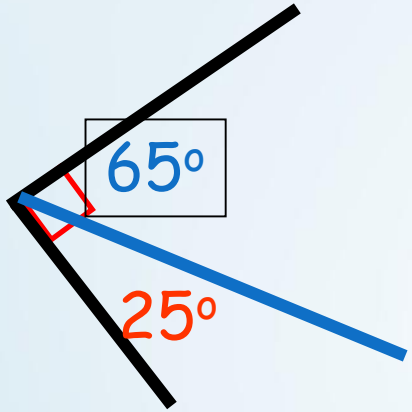
C ∠ STR is Right Angled

D ∠ RST is Acute

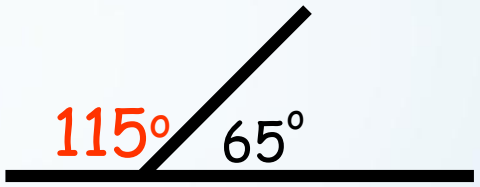
E ∠ SRT is Acute

Calculate Missing Angles

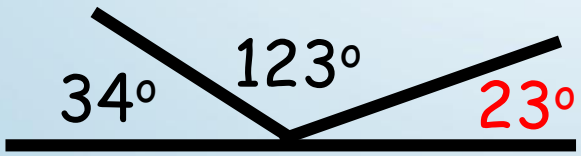
1.



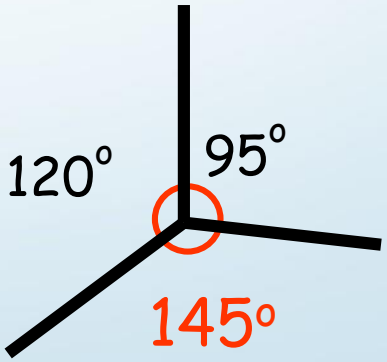
2.



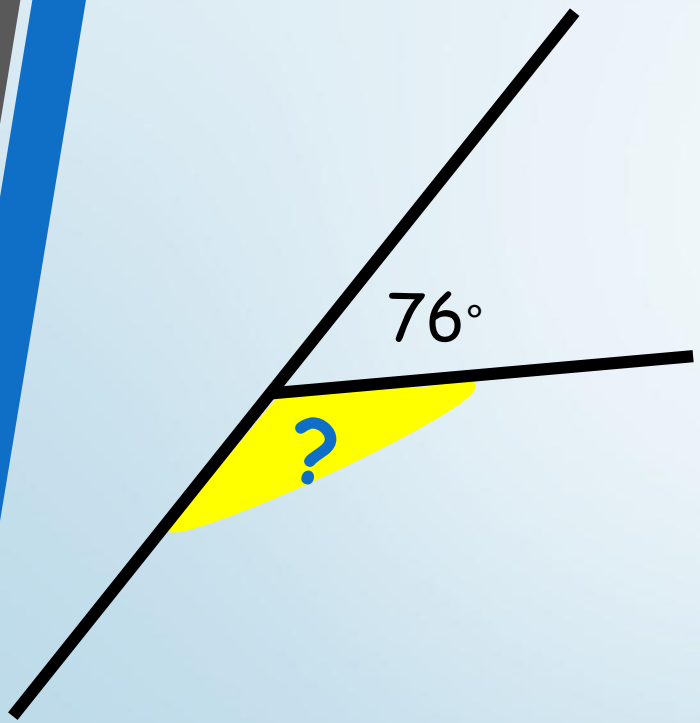
3.



4.



QUESTION TIME!



Calculate the missing angle.

A 256°

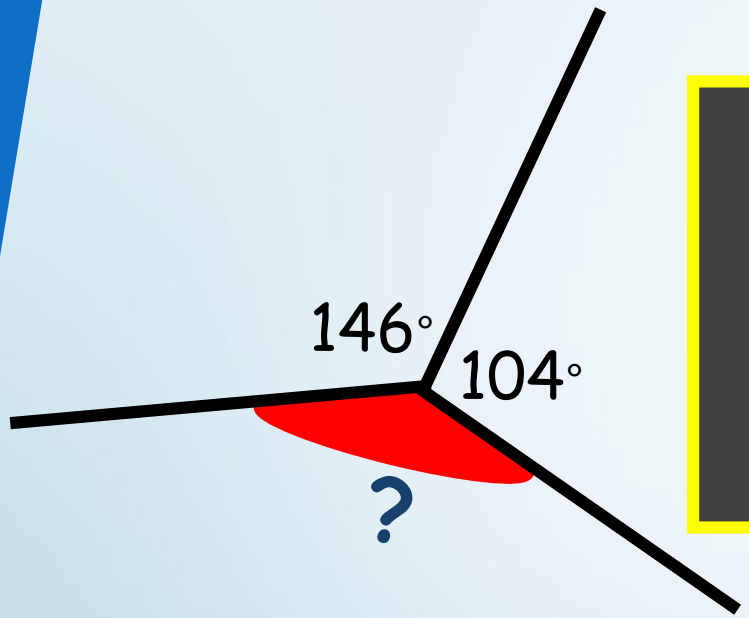
B 166°

C 104°

D 76°

E 14°

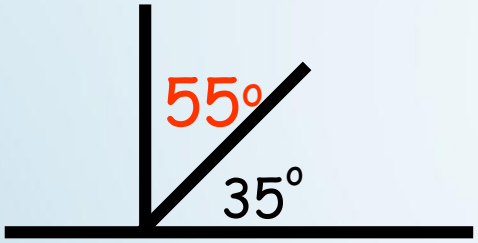
QUESTION TIME!



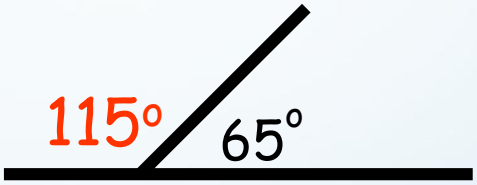
The missing angle is 110°

TRUE or FALSE?

Related Angles



Two angles making a right angle add to 90°
(Complementary angles)



Two angles making a straight line add to 180°
(Supplementary angles)

QUESTION TIME!

Calculate the supplement of 163 °.

A 13°

B 17°

C 73°

D 197°

E 343°

QUESTION TIME!

Calculate the complement of 30 °.

A 150°

B 120°

C 90°

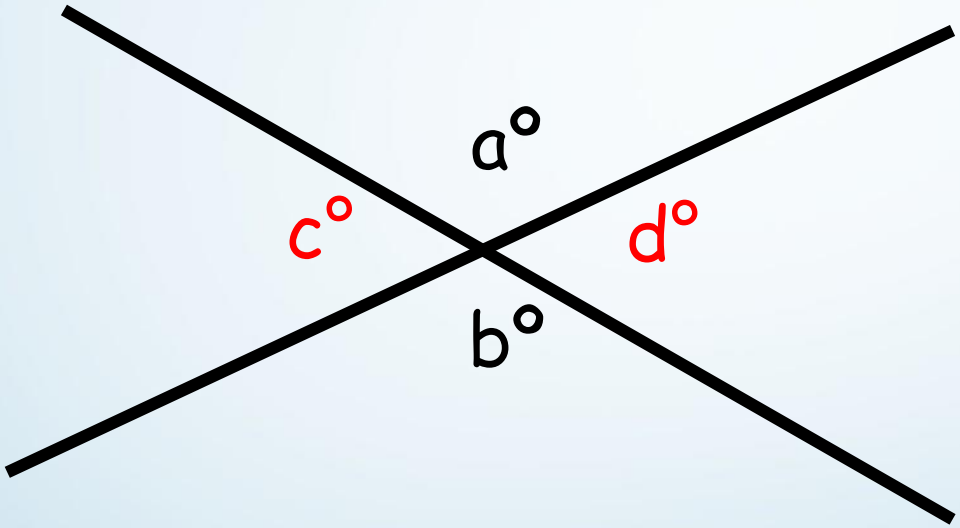
D 60°

E 30°

Opposite Angles are equal.

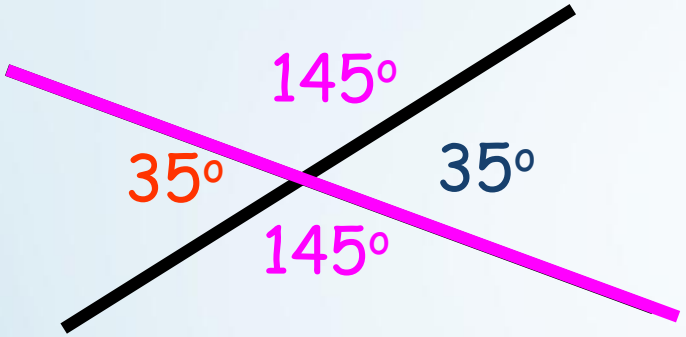
a=b

c=d

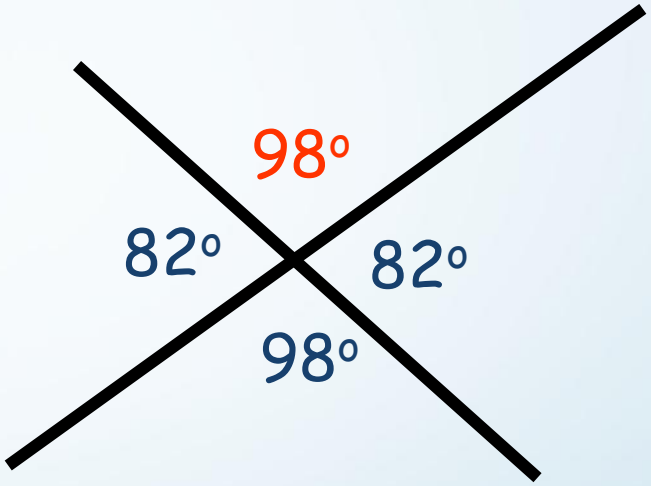


Calculate Missing Angles

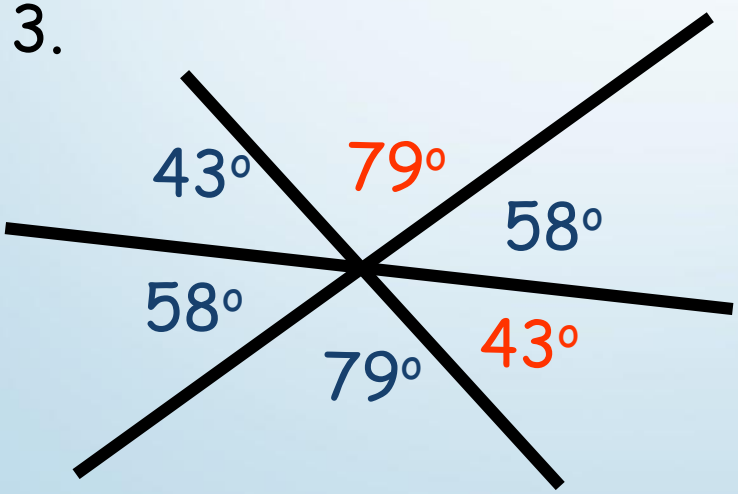
1.



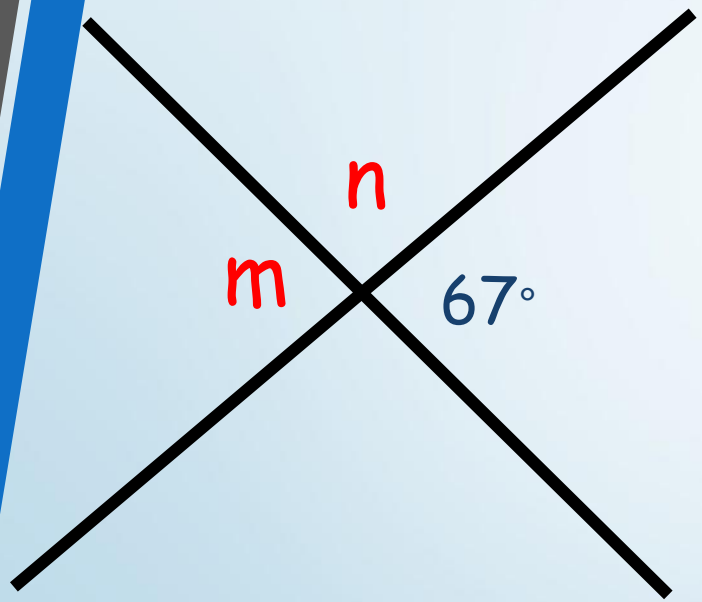
2.



3.



QUESTION TIME!



Calculate angles m & n

A m=67° & n= 67°

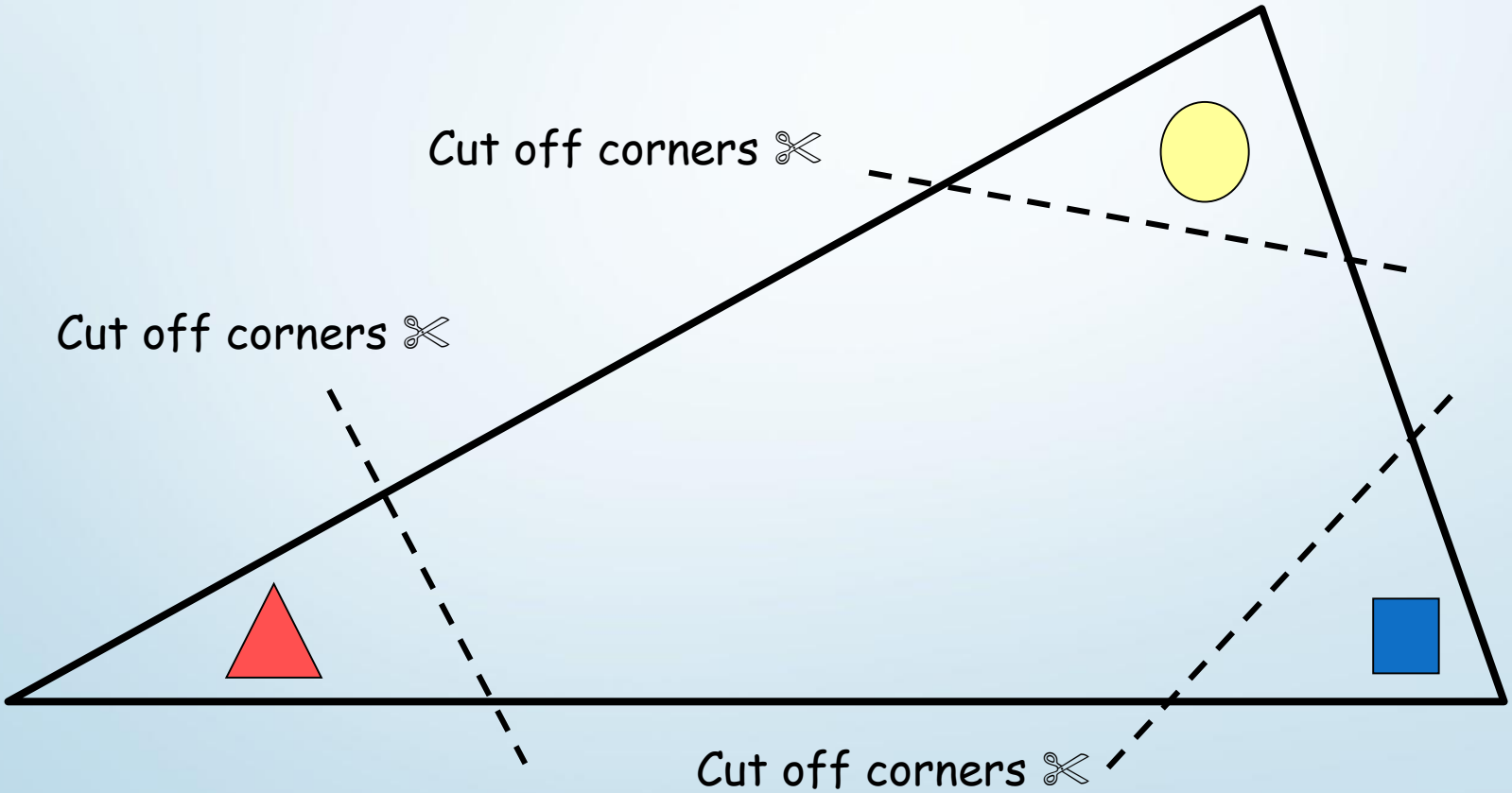
B m=113° & n= 67°

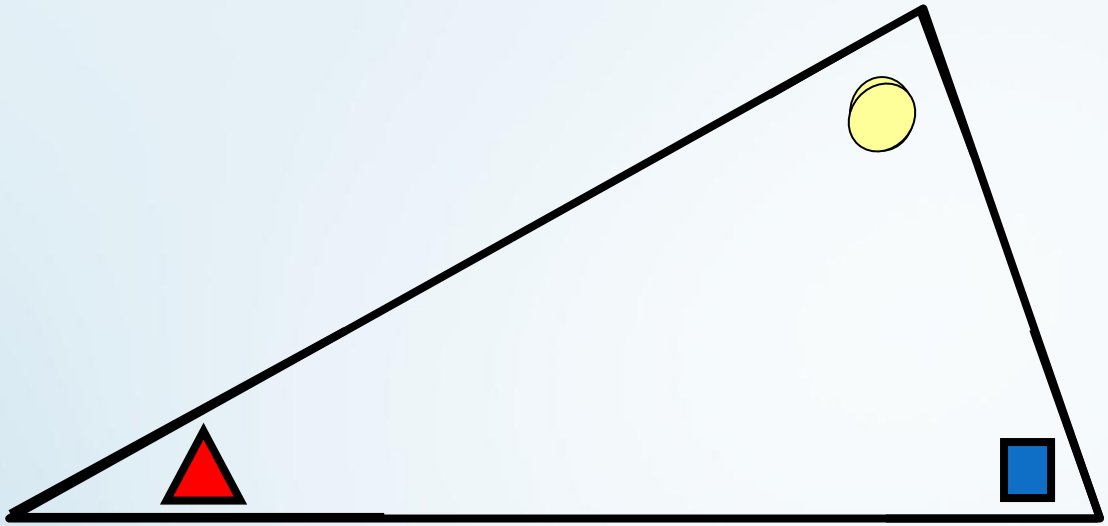
C m=67° & n= 113°

D m=67° & n= 127°

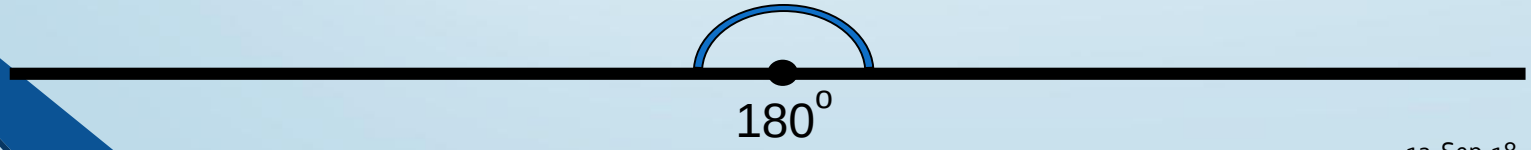
E m=127° & n= 67°

To determine the angle sum of any Triangle



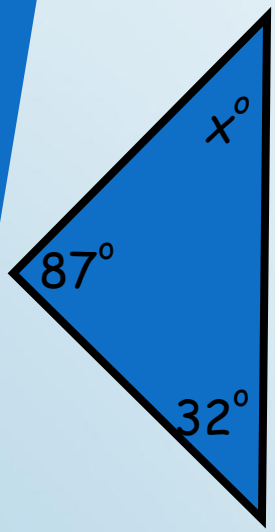


All angles in a triangle add up to 180^{o}

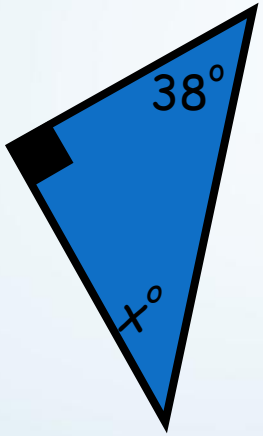


Calculating Missing Angles

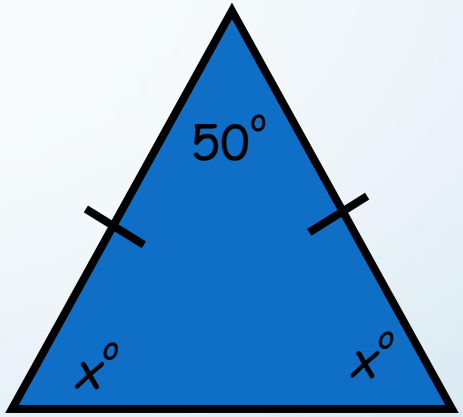
Copy out the following triangles and find the missing angles.



61°



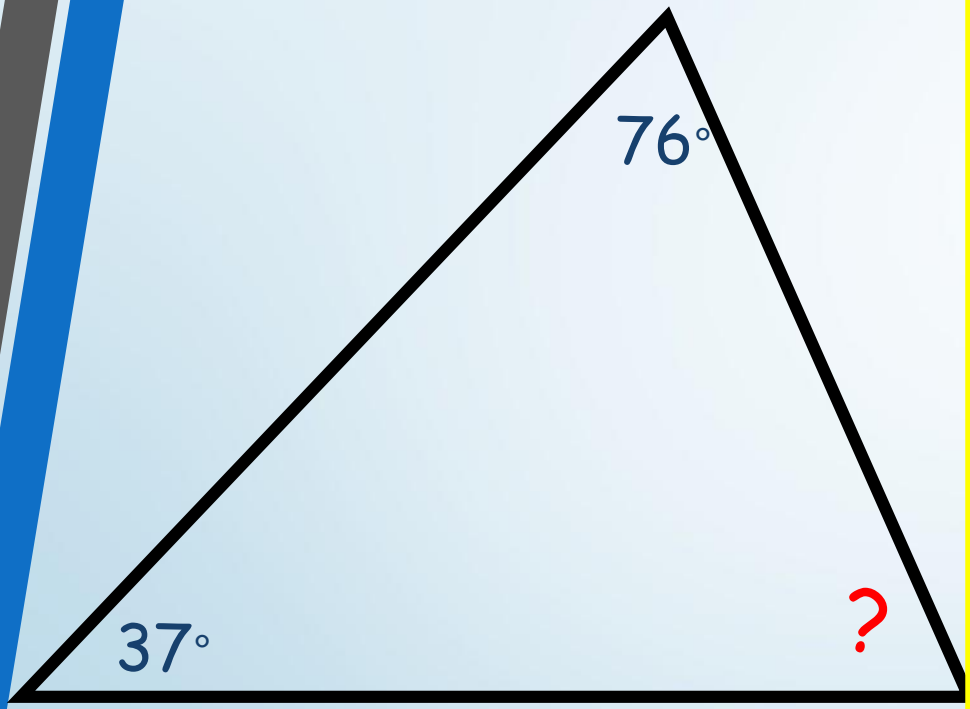
52°



65° 65°

Remember all the angles add up to 180°

QUESTION TIME!

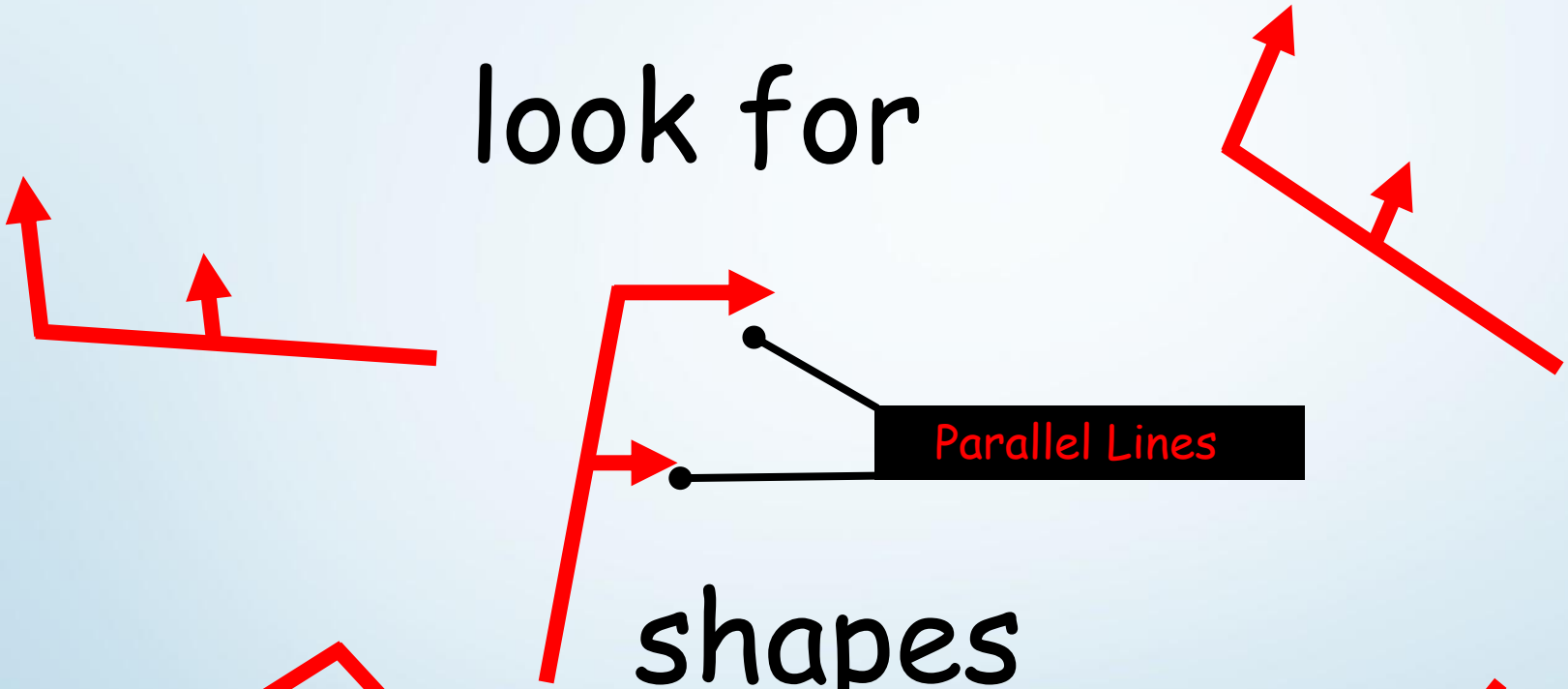


Calculate the missing angle

A	67°
B	76 °
C	77 °
D	113 °
E	114 °
F	247 °

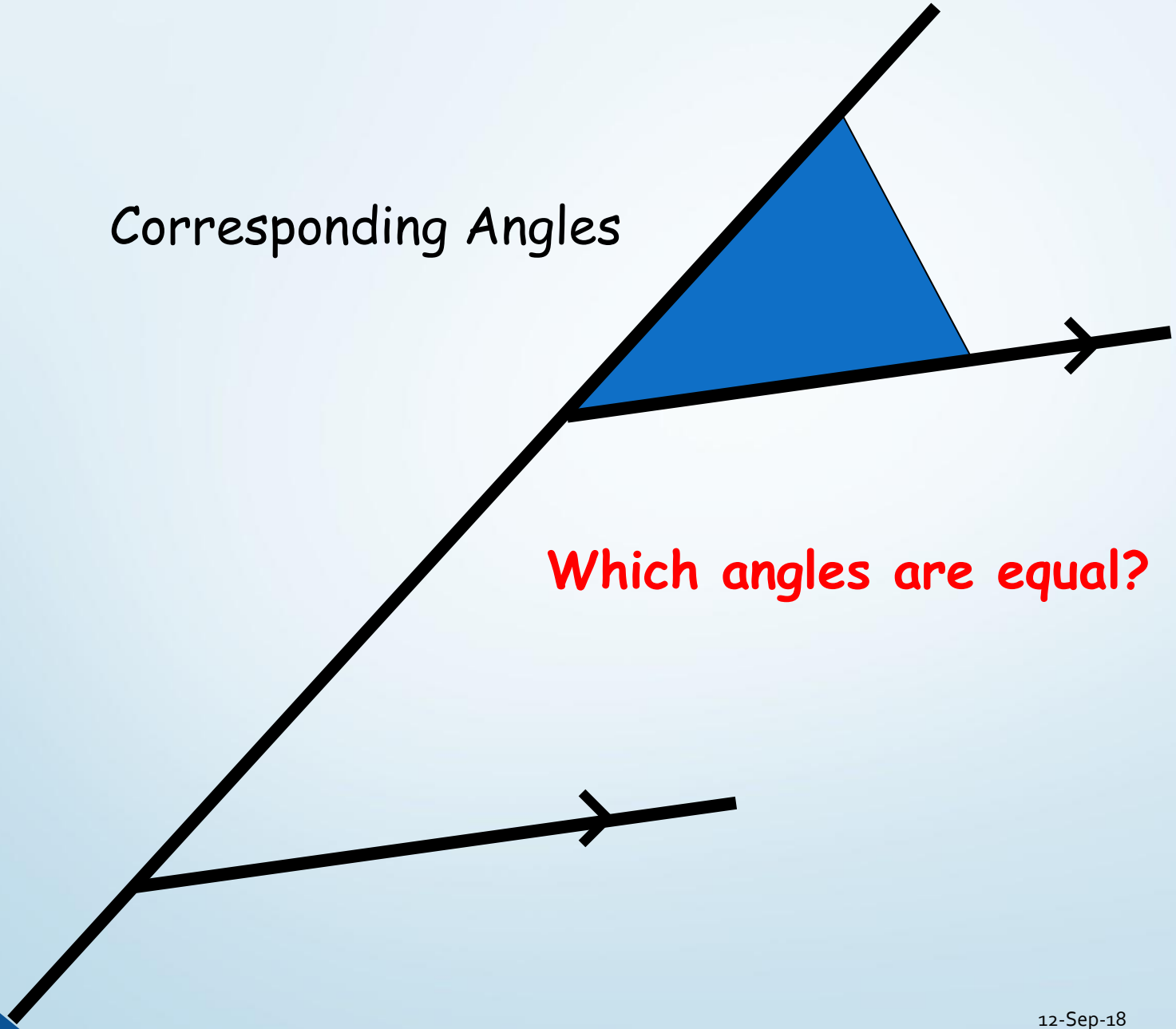
Corresponding Angles

look for



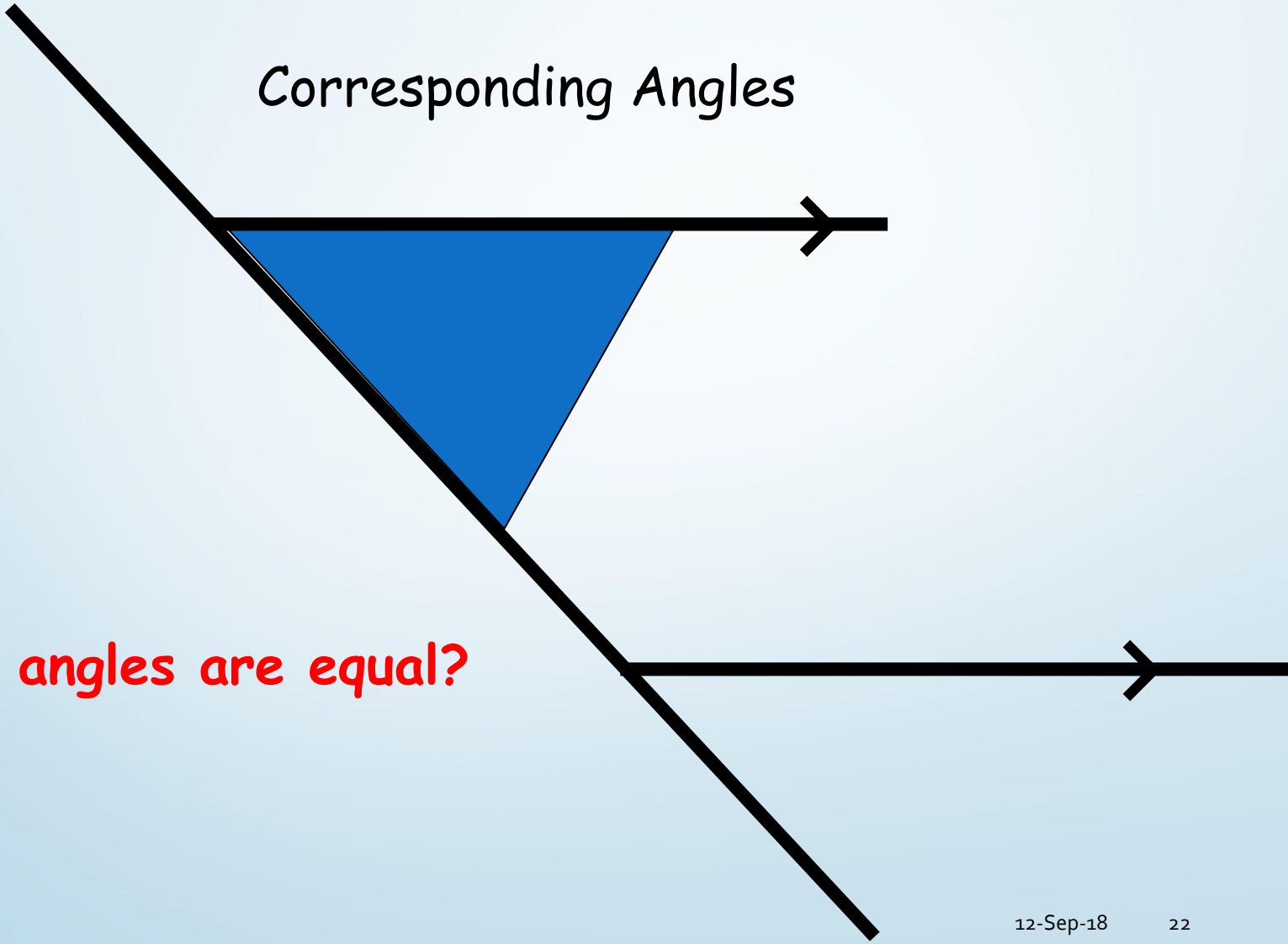
shapes

Corresponding Angles

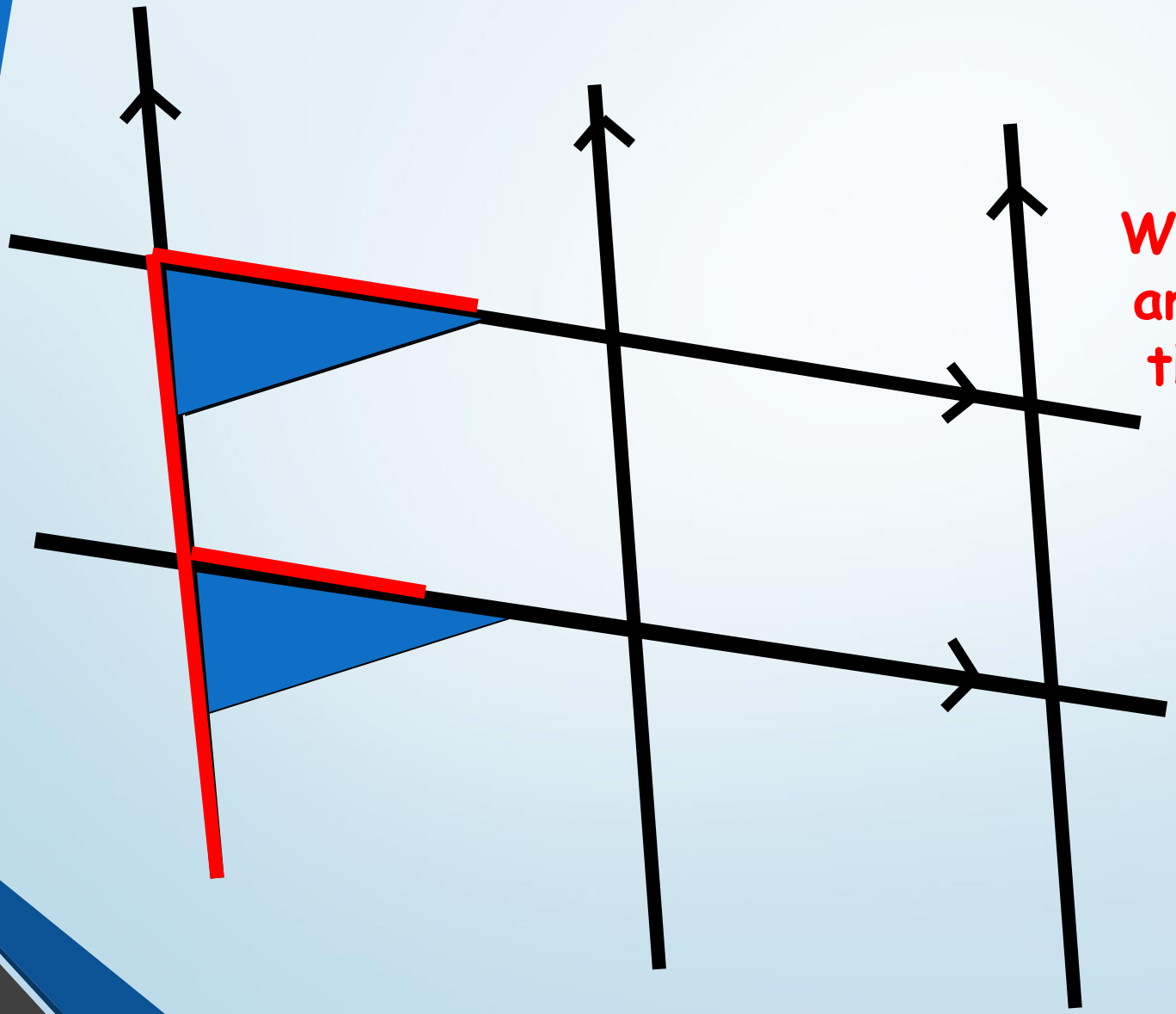


Which angles are equal?

Corresponding Angles



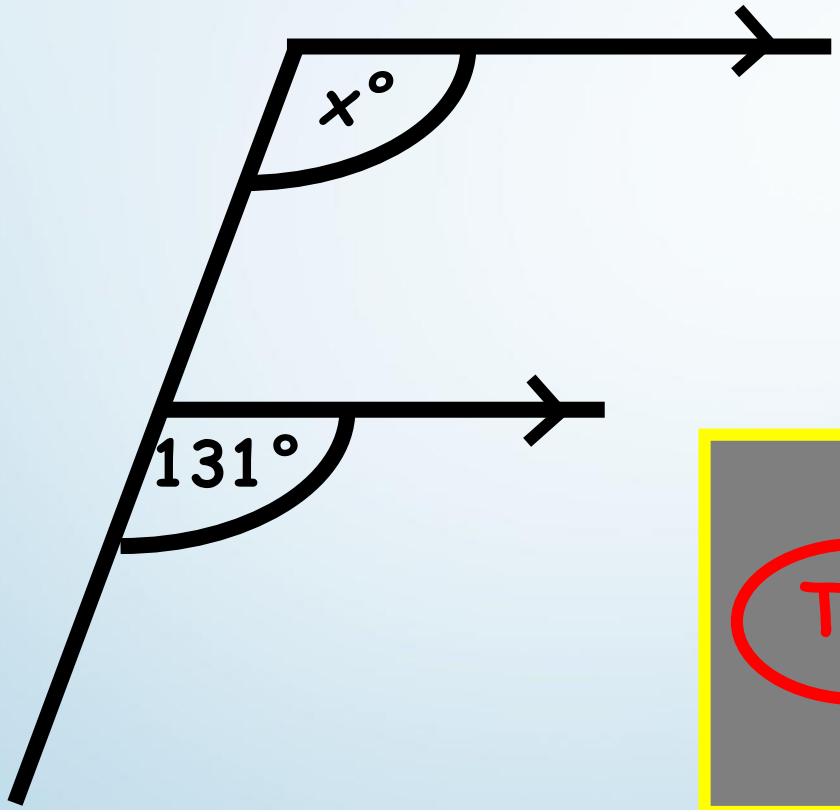
Which angles are equal?



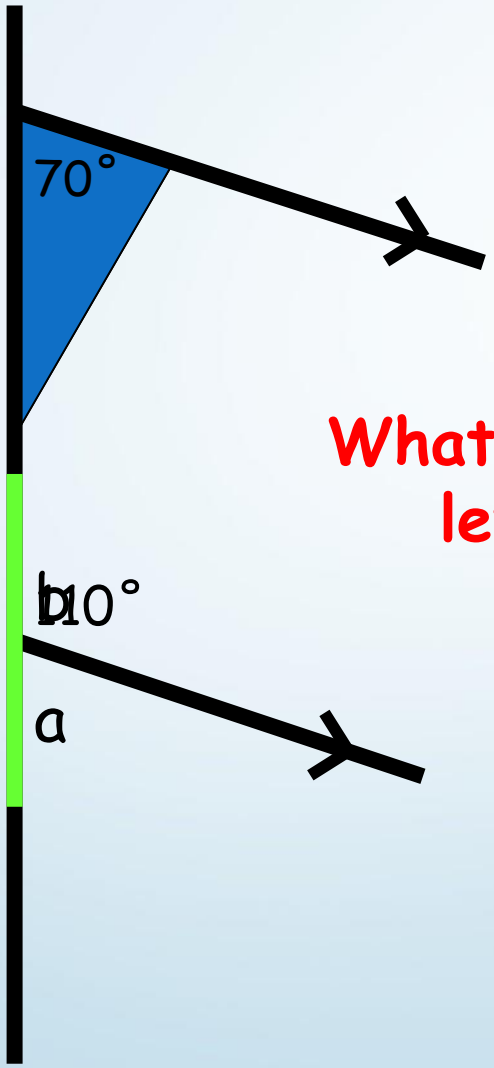
Which angles are equal to the shaded angle?

QUESTION TIME!

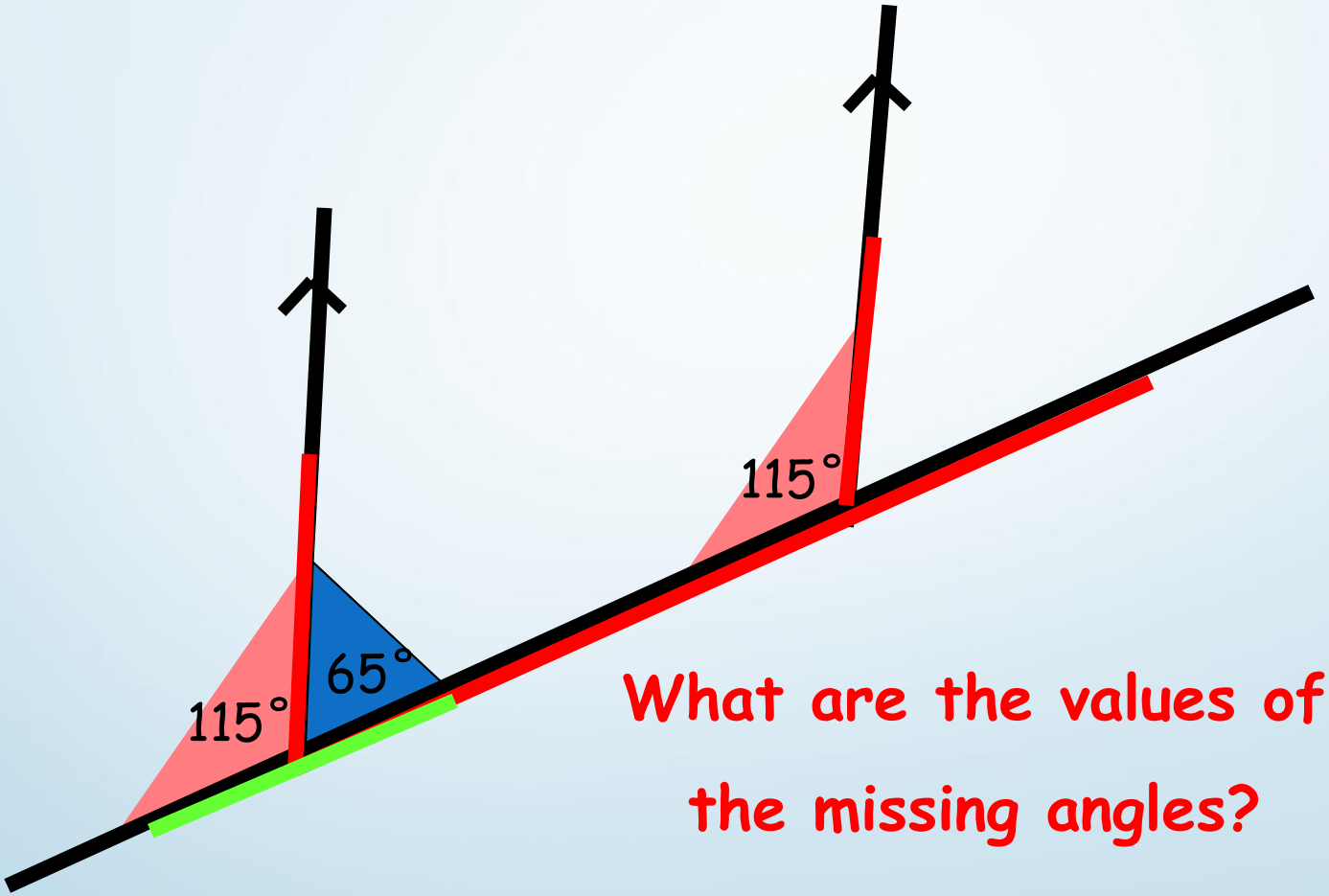
The value of x is 131°.



True or False?

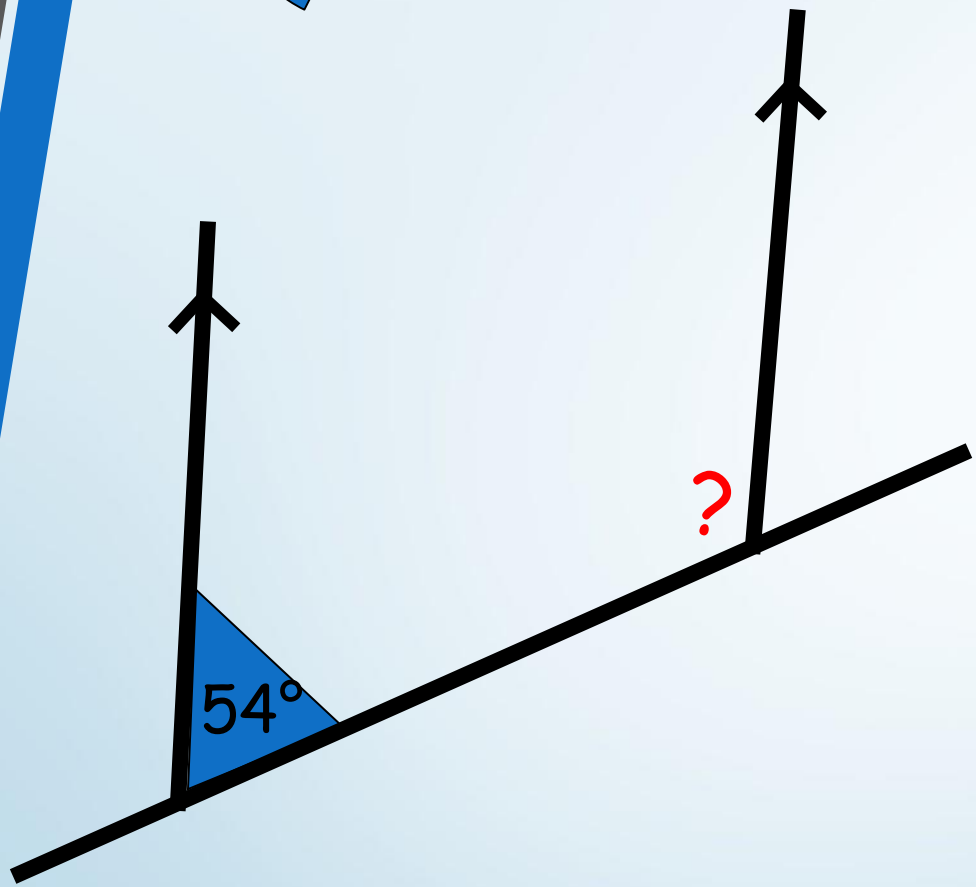


What are the values of letters a and b?



What are the values of the missing angles?

QUESTION TIME!



The angle marked is:-

A 180°

B 136 °

C 126°

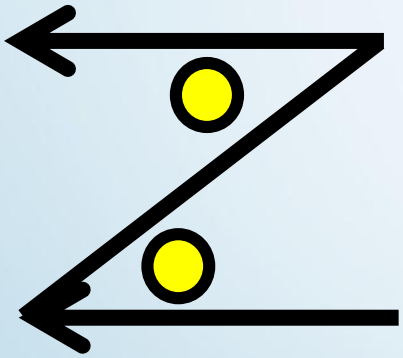
D 124 °

E 54 °

F 34 °

Alternate Angles

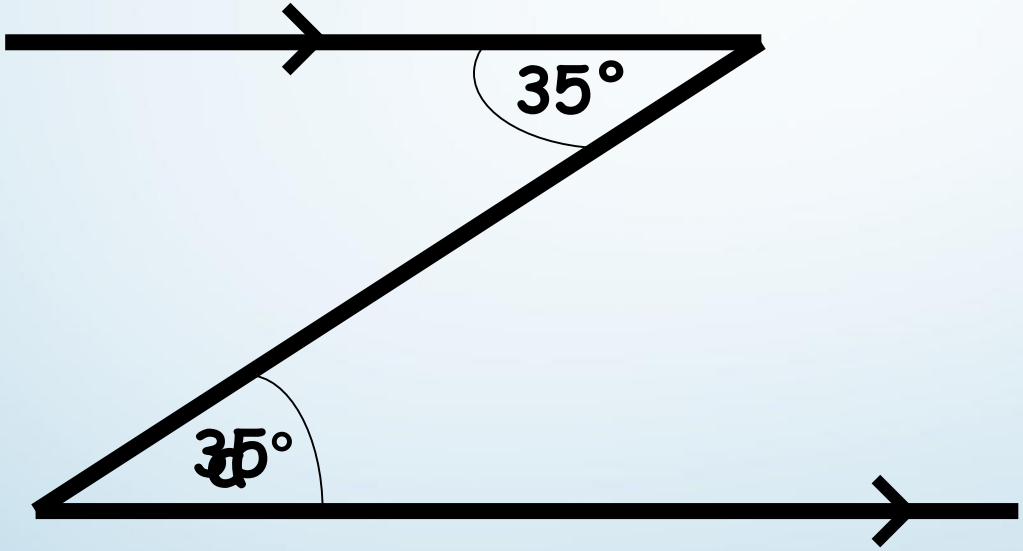
Look for

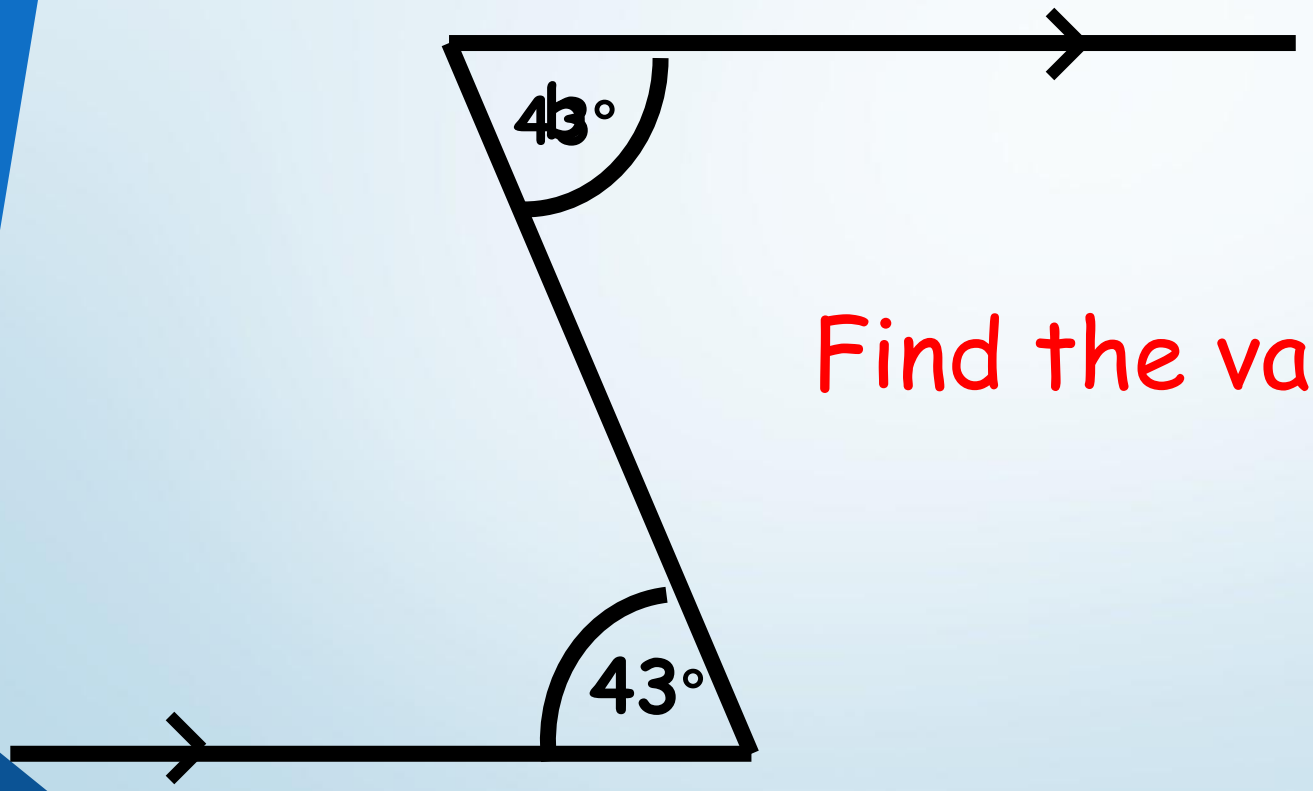


- Z shapes

● = equal angles

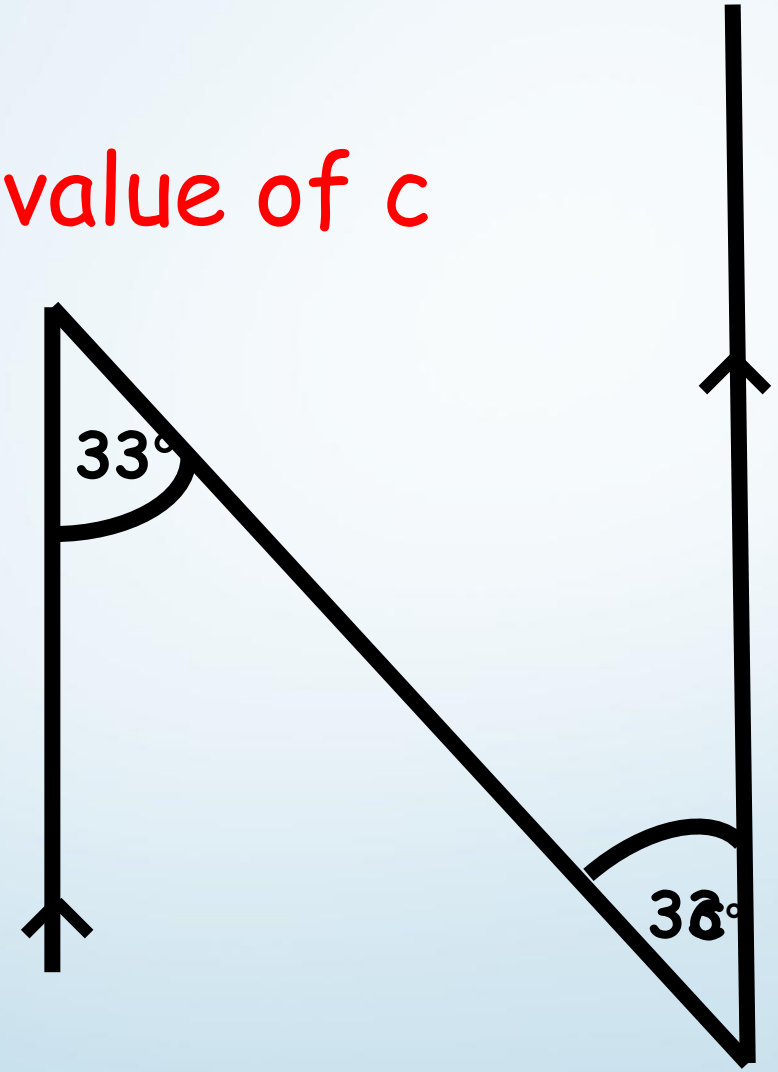
Find the value of a.





Find the value of b.

Find the value of c



QUESTION TIME!

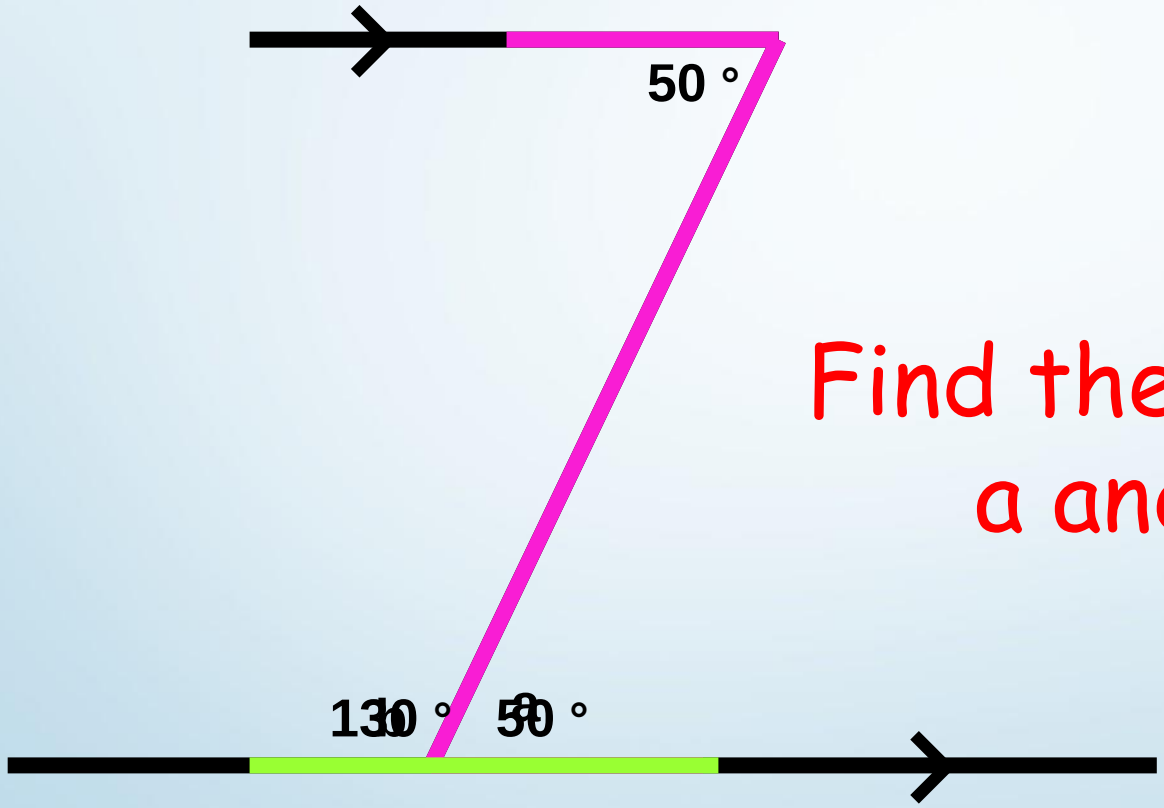
Find the value of d.

A 180°

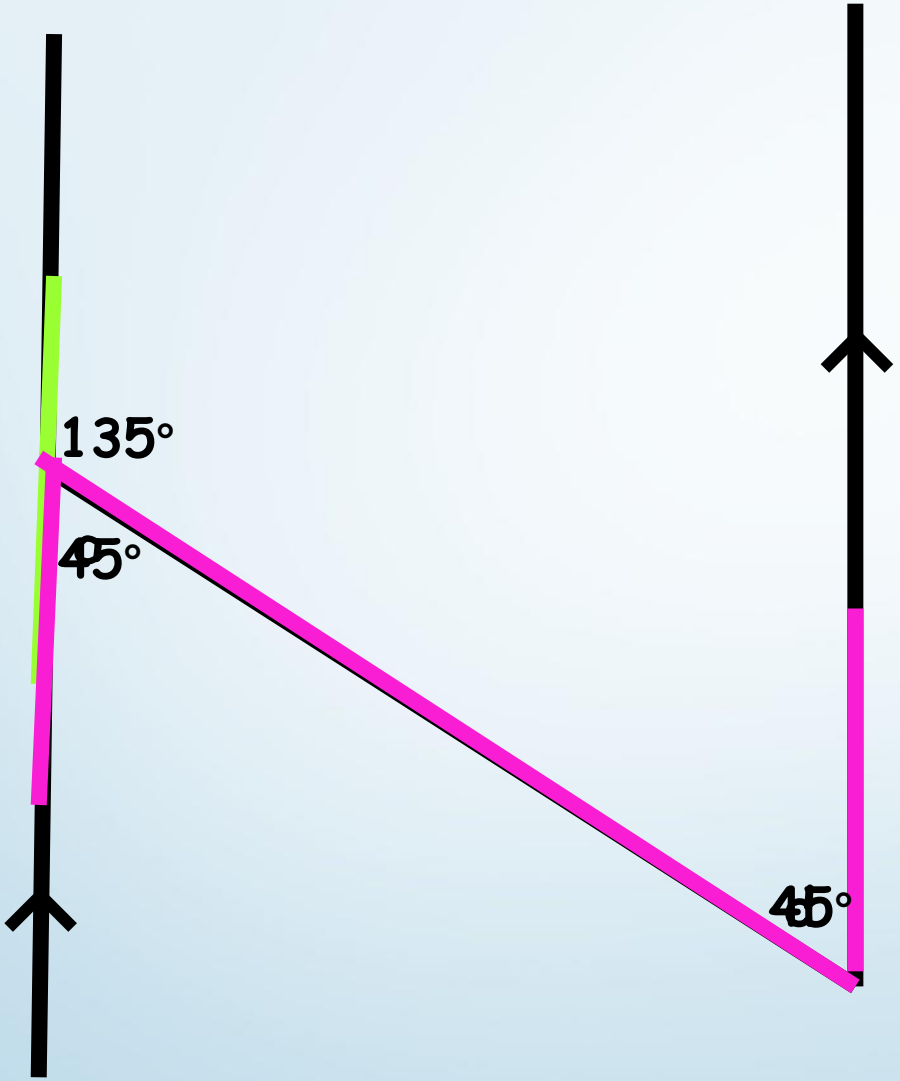
B 123°

C 190°

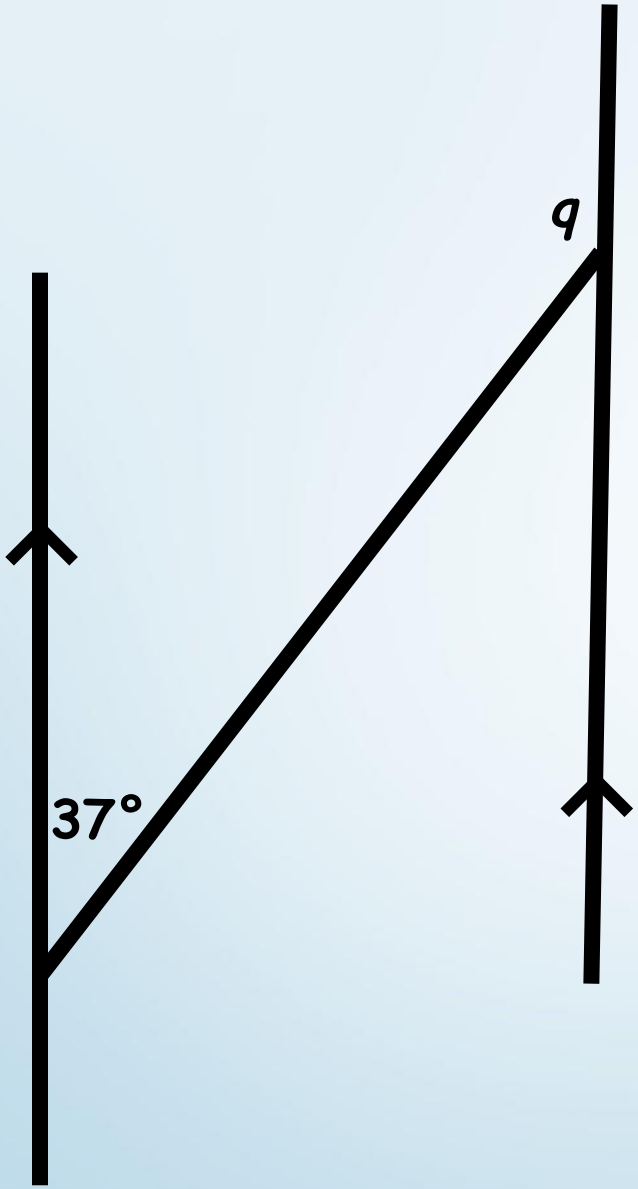
D 57°



Find the value a and b

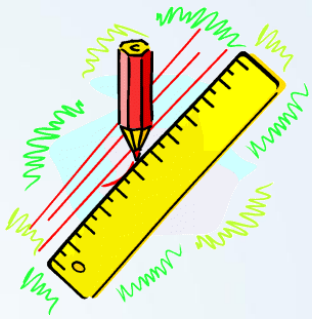


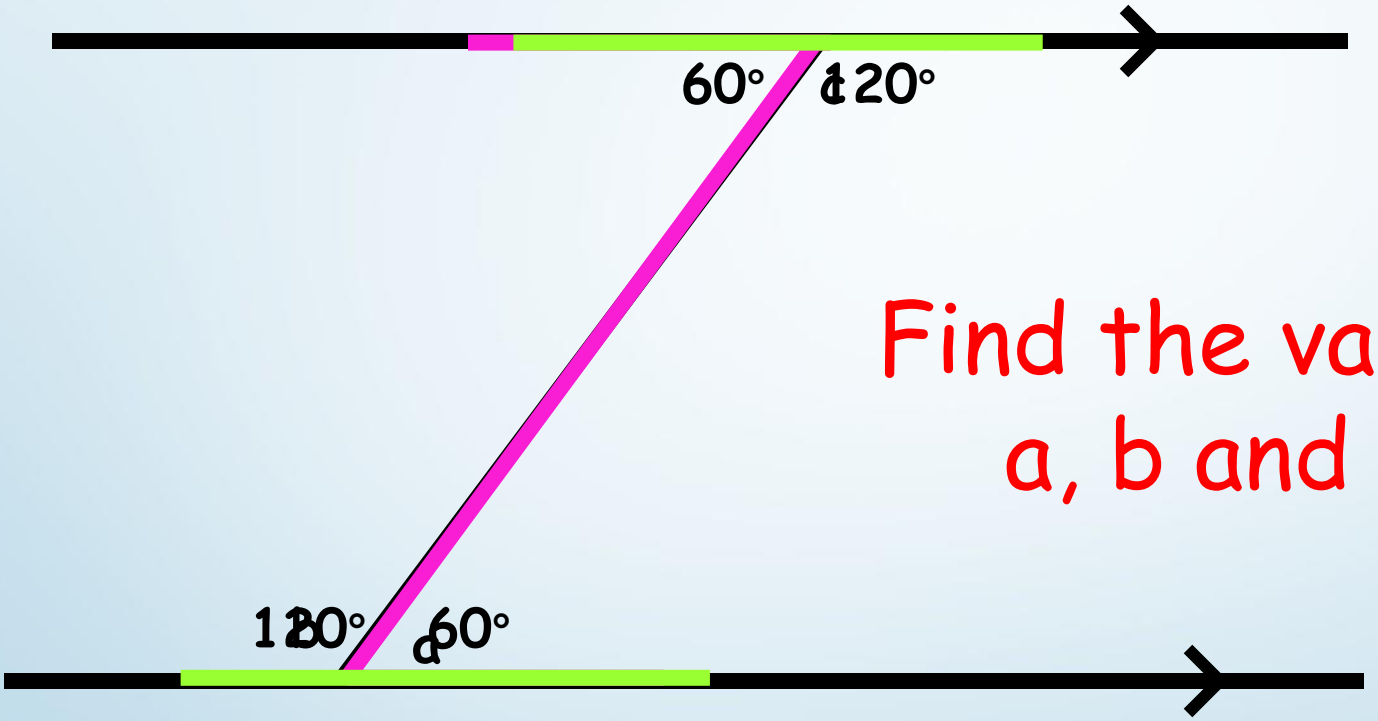
Find the value of a and b.



Find the value of q

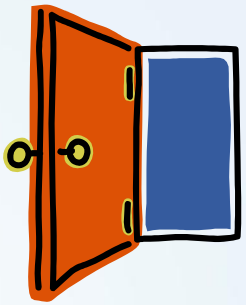
A	37°
B	53°
C	143°
D	153°
E	180 °
F	223 °

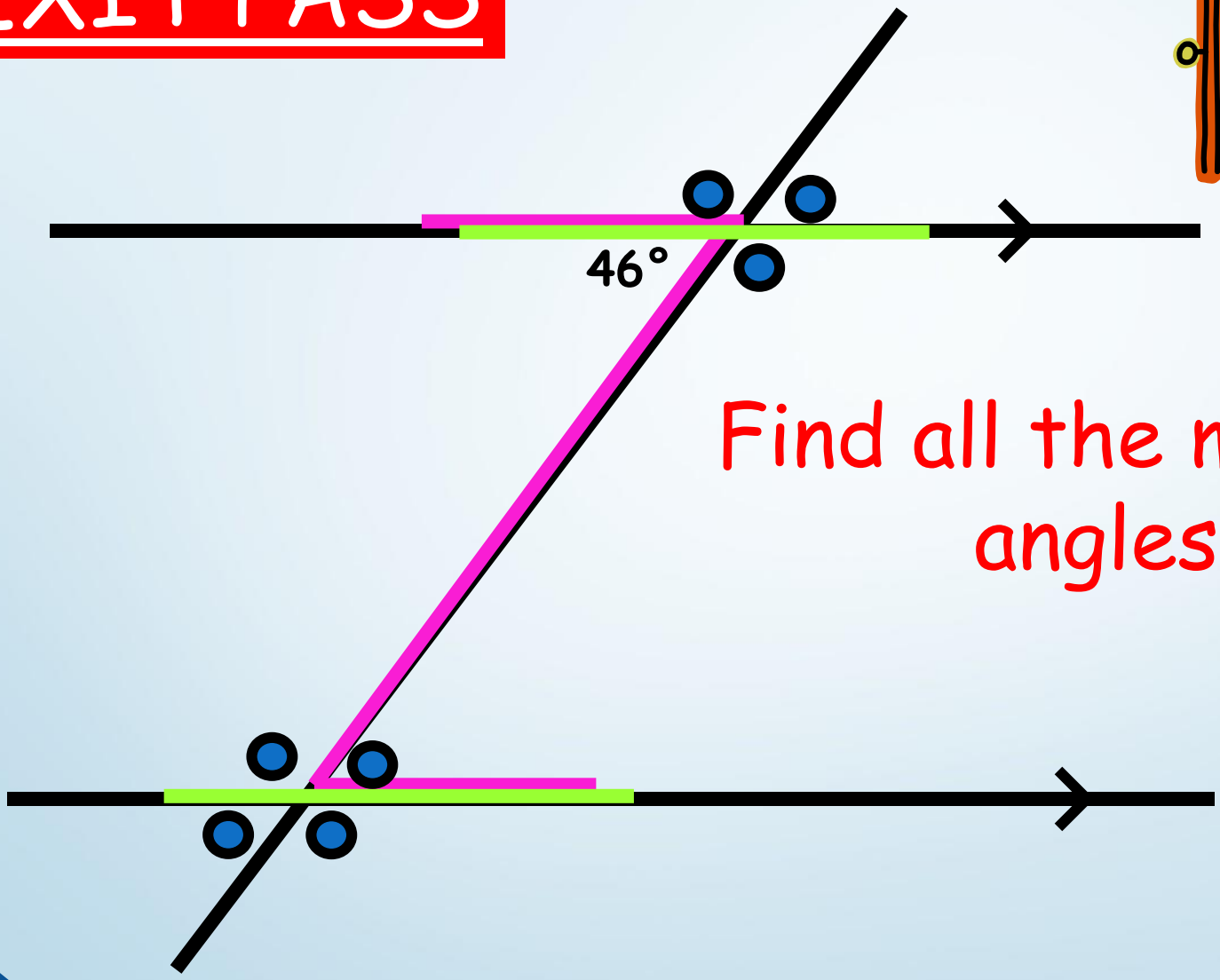




Find the values a, b and c.

EXIT PASS





Find all the missing angles