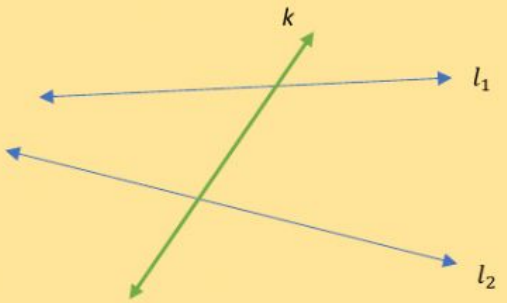
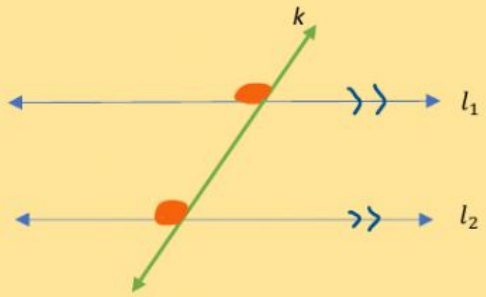
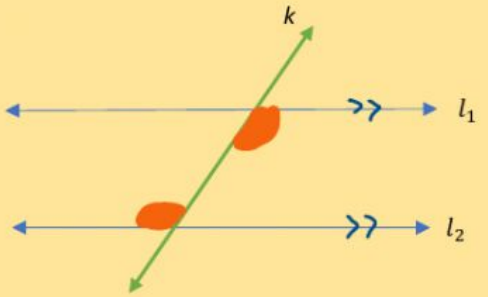
# CORRESPONDING AND ALTERNATE ANGLES



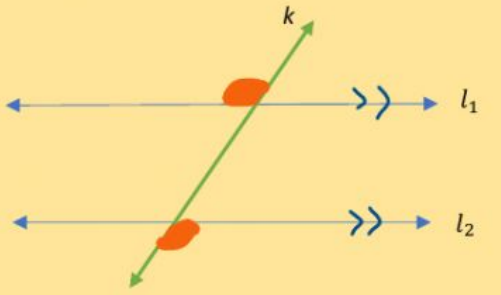

- Here there are two lines $l_1$ and $l_2$ .
- A third straight line "$k$" crosses them. This is called a **transversal**.




- In this case, $l_1$ and $l_2$ are parallel to each other.
- The angles that are facing towards the **same direction** are called **corresponding angles**.
- Corresponding angles are in the same size.



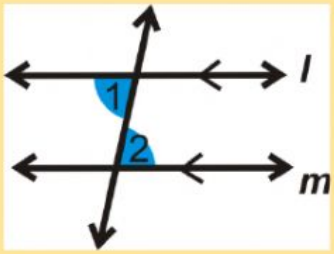

- The angles that are facing towards the **opposite direction** and **between the parallel lines** are called **alternate interior angles**.
- Alternate interior angles are in the same size.



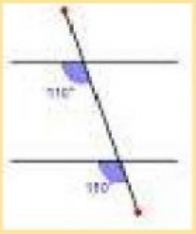

- The angles that are facing towards the **opposite direction** and **outside of the parallel lines** are called **alternate exterior angles**.
- Alternate exterior angles are in the same size.

# EXAMPLES

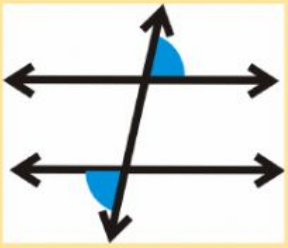
1) Choose the correct option.



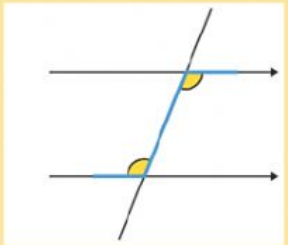

A. Corresponding Angles
B. Alternate Interior Angles
C. Alternate Exterior Angles



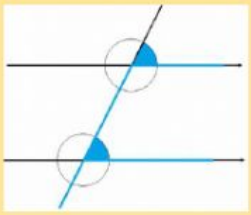
A. Corresponding Angles
B. Alternate Interior Angles
C. Alternate Exterior Angles



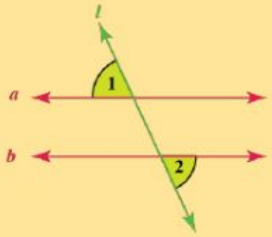
A.Corresponding Angles
B.Alternate Interior Angles
C.Alternate Exterior Angles



A.Corresponding Angles
B.Alternate Interior Angles
C.Alternate Exterior Angles



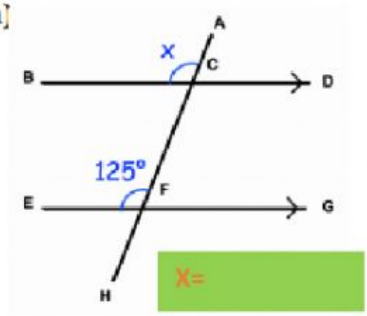
A.Corresponding Angles
B.Alternate Interior Angles
C.Alternate Exterior Angles




A.Corresponding Angles
B.Alternate Interior Angles
C.Alternate Exterior Angles

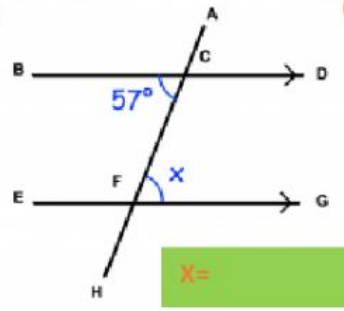
## 2) Find angle *x* for each option.

(a)



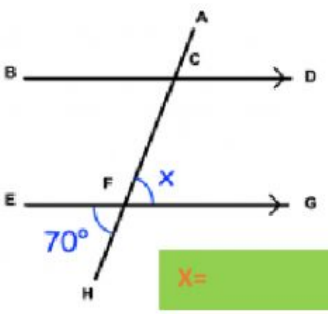

X=

(b)



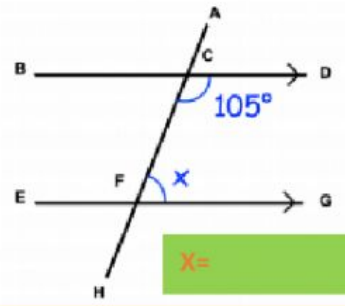

X=

(c)



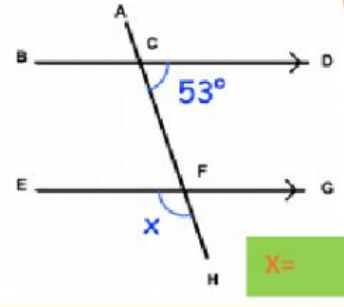

X=

(d)



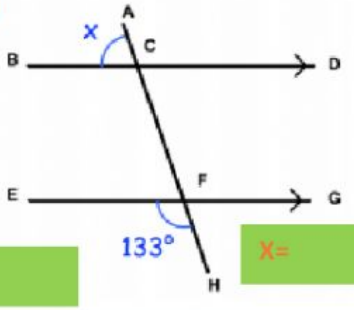

X=

(e)




X=

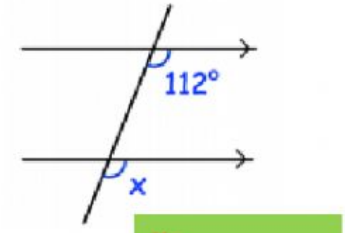
(f)




X=

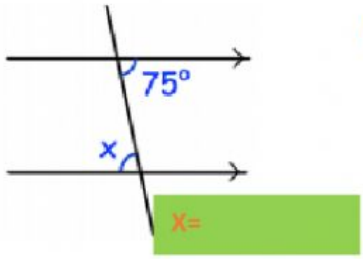
## 3) Find the asked angles.

(a)



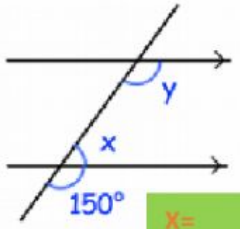

X=

(b)




X=

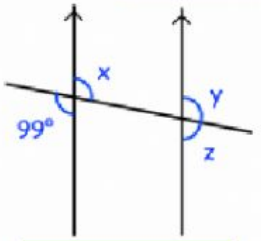
(c)




X=

Y=

(d)

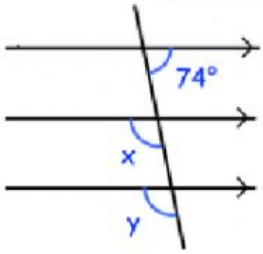



X=

Y=

Z=

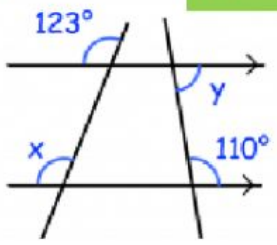
(e)




X=

Y=

(f)




X=

Y=