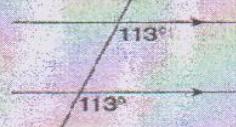


Identify Parallel Lines

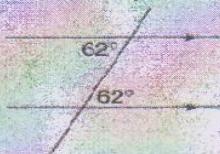


Two lines are parallel if:

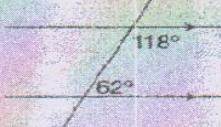
- corresponding angles are equal



- alternate angles are equal



- co-interior angles are supplementary



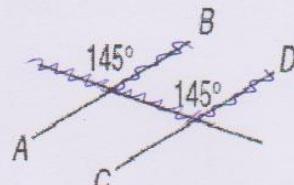
In each case above the lines must be parallel.

\parallel means 'is parallel to'

\perp means 'is perpendicular to'

I In each case, is $AB \parallel CD$? Give reasons.

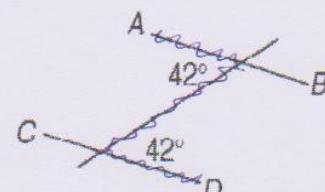
a



yes. $AB \parallel CD$

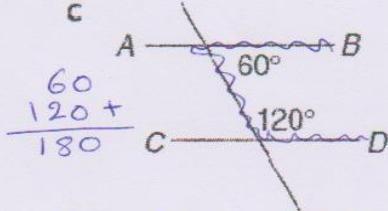
Corresponding angles are equal

b



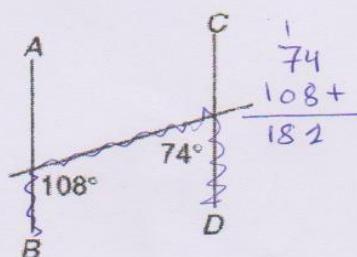
yes $AB \parallel CD$
Alternate angles are equal

c



Yes $AB \parallel CD$. The sum of Co-interior angles $\equiv 180^\circ$

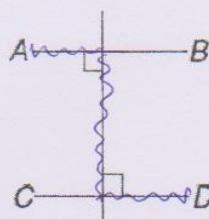
d



No. AB is not parallel to CD

The sum of co-interior angle \equiv is not equal to 180°

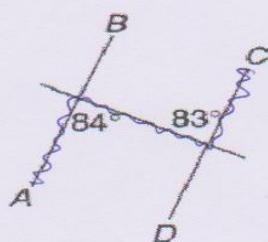
e



Yes $AB \parallel CD$

Alternate angles are equal

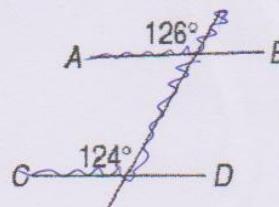
f



No.. $AB \parallel CD$

AB is not parallel to CD
Alternate angles are not equal.

g



No. AB is not parallel to CD

Corresponding angles are not equal.