a)

c)

b)

d)


For each diagram, draw a line segment that is parallel to $A B$ and goes through point C .

Draw on the diagrams to indicate that the lines are parallel.

Draw a transversal that cuts through the parallel lines and goes through point $R$.
Line segments $A B$ and $C D$ are parallel
Line segment EF is a transversal that intersects the line segments at points $X$ and $Y$ respectively.

a) Measure the size of each angle.


Compare answers with a partner.
What do you notice?
b) Complete the sentences.

Angle AXE is alternate to angle $\qquad$
Angle AXE is corresponding to angle $\qquad$
Angle BXF is corresponding to angle $\qquad$
Angle CYF is alternate to angle $\qquad$

Line segments QR and ST are parallel.
Line segment UV is a transversal that intersects the line segments at points $X$ and $Y$ respectively.
a) Draw a diagram to represent this.


Compare your diagram with a partner's diagram.
Do they look the same? Does it matter? Why?
b) Eight angles are formed. Measure the size of each angle and label them on the diagram.

Compare answers with a partner.
What is the same and what is different?
c) Identify two pairs of alternate angles and two pairs of corresponding angles.
$\qquad$
$\qquad$

What do you notice?


a) Complete the sentence in two ways.

Line segments $\qquad$ and are parallel.

Line segments $\qquad$ and $\qquad$ are parallel.
b) Complete the sentence.

GJ is a $\qquad$ that intersects the line segments
$\qquad$ and $\qquad$
c) Identify four pairs of alternate angles.
$\qquad$
d) Identify four pairs of corresponding angles.
e)


Do you agree with Dora? $\qquad$
Explain your answer.

