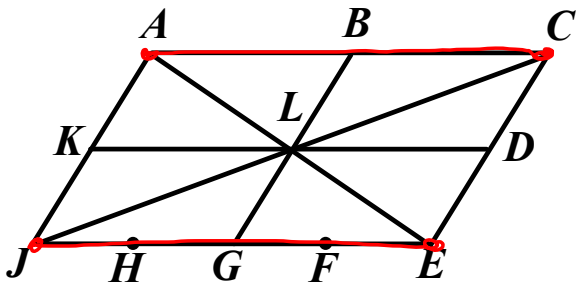
Term	Definition	Symbol
Intersection Overlap And both that Same time	The point or collection of points where two geometric "parts" cross/touch These "parts" include points, segments, rays, lines, and planes, among other things.	∩
Union all together OR	The geometric shapes formed by combining two or more geometric parts together	∪



1.) $\overline{CD} \cap \overline{DE} =$ D (intersect, Overlap)

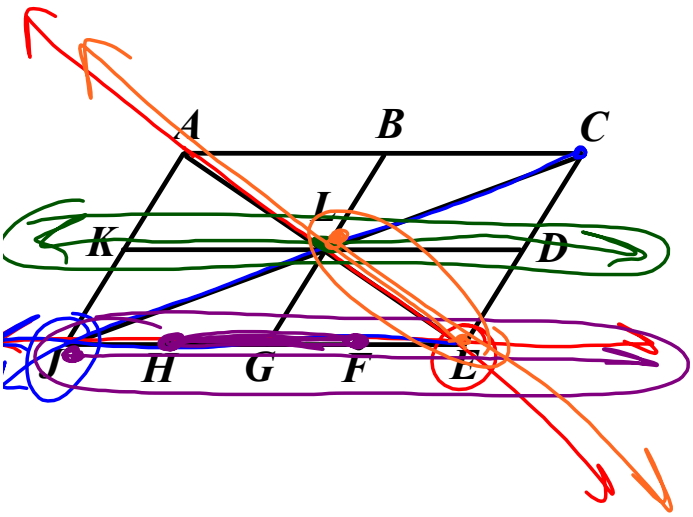
2.) $\overline{AK} \cup \overline{KJ} =$ $\overline{AJ}$ (Union, all together)

3.) $\overline{JF} \cap \overline{HE} =$ $\overline{HF}$

4.) $\overline{BG} \cap \overline{KD} =$ L (intersect)

5.) $\overline{AC} \cap \overline{JE} =$ ∅ (intersect)

empty set
No overlap
No Solution



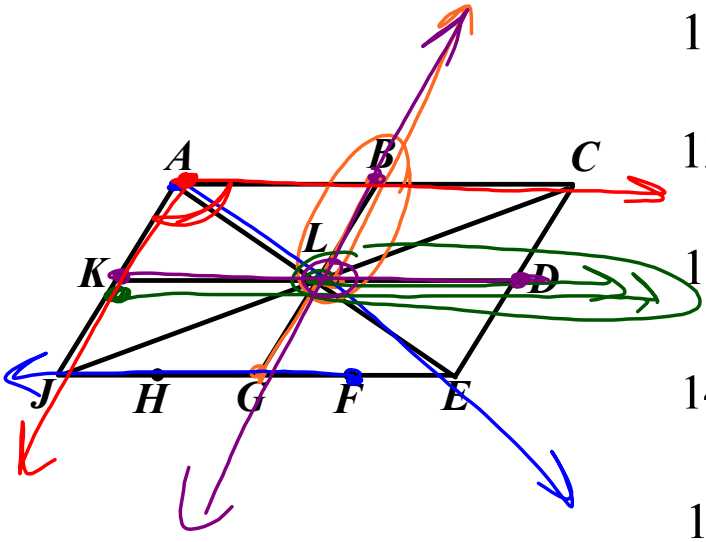
6.) $\overleftrightarrow{AL} \cap \overleftrightarrow{JG} =$ E

7.) $\overrightarrow{CL} \cap \overrightarrow{EG} =$ J

8.) $\overline{HF} \cup \overrightarrow{JE} =$ $\overrightarrow{JE}$

9.) $\overrightarrow{LK} \cup \overrightarrow{LD} =$ $\overleftrightarrow{KD}$

10.) $\overrightarrow{EA} \cap \overrightarrow{LE} =$ $\overline{LE}$



11.) $\overline{BG} \cap \overrightarrow{LB} =$ $\overline{LB}$

12.) $\overrightarrow{AL} \cap \overrightarrow{FJ} =$ $\varnothing$ Overlap

13.) $\overrightarrow{LD} \cap \overrightarrow{KD} =$ $\overrightarrow{LD}$

14.) $\overline{KD} \cap \overleftrightarrow{BG} =$ L

15.) $\overrightarrow{AC} \cup \overrightarrow{AJ} =$ $\angle CAJ$ or $\angle JAC$

Union

angle

Vertex Letter in middle

Homework: Key

1 a $\overline{AB} \cap \overline{BC} =$ B

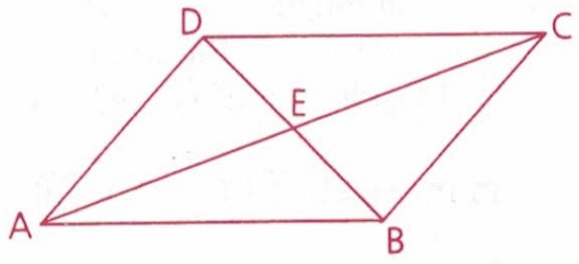
b $\overrightarrow{EC} \cup \overrightarrow{EA} =$ $\overleftrightarrow{AC}$

c $\overleftrightarrow{AC} \cap \overleftrightarrow{DB} =$ E

d $\overline{DC} \cap \overline{AB} =$ ~~$\emptyset$~~

e $\overrightarrow{AC} \cap \overrightarrow{EC} =$ $\overrightarrow{EC}$

2



2 a $\overrightarrow{EC} \cup \overrightarrow{FA} =$ $\overleftrightarrow{AC}$ or $\overleftrightarrow{EF}$

b $\overrightarrow{EC} \cap \overrightarrow{FA} =$ $\overline{EF}$

c $\overleftrightarrow{AC} \cap \overleftrightarrow{DR} =$ A