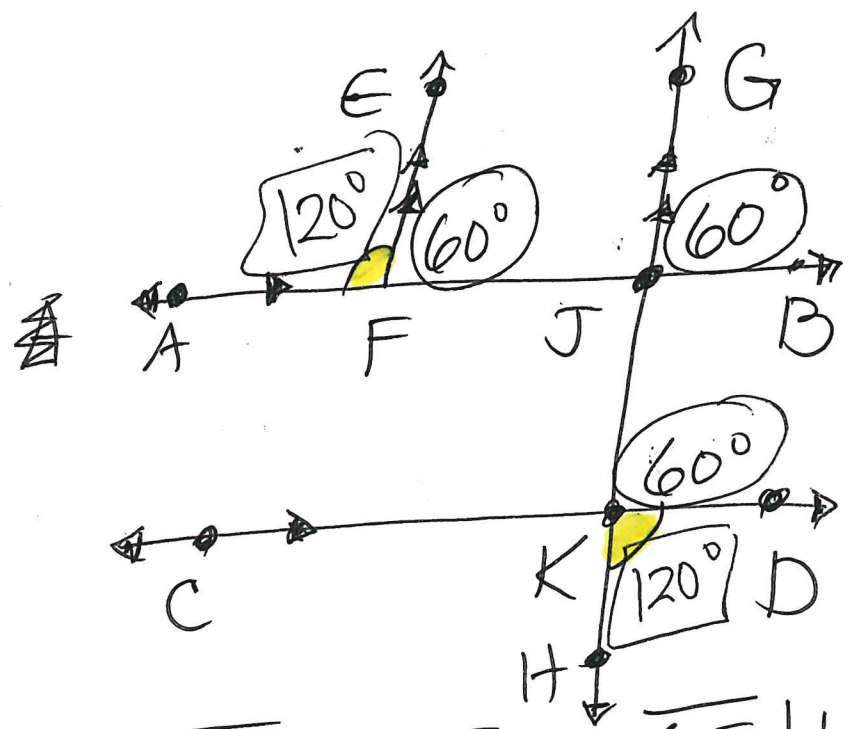


9/20 Lesson 18: Parallel Lines

ie 1



alt int. \angle 's
same-side int \angle 's
alt-ext- \angle
corr \angle 's

Given $\rightarrow \overline{AB} \parallel \overline{CD}, \overline{EF} \parallel \overline{GH}$
prove $\rightarrow \angle AFE \cong \angle DKH$

Statements	Reasons
① See Above	① Given
② $\angle GJB \cong \angle JKD$	② Corr. \angle 's
③ $\angle EFT \cong \angle GJB$	③ Corr. \angle 's

$$\textcircled{4} \angle JKD + \angle HKD \stackrel{60^\circ}{=} 180^\circ$$

$$\textcircled{5} \angle AFE + \angle EFJ \stackrel{60^\circ}{=} 180^\circ$$

$$\textcircled{6} \angle AFE \cong \angle HKD$$
$$120^\circ \cong 120^\circ$$

$\textcircled{4}$ Supplementary

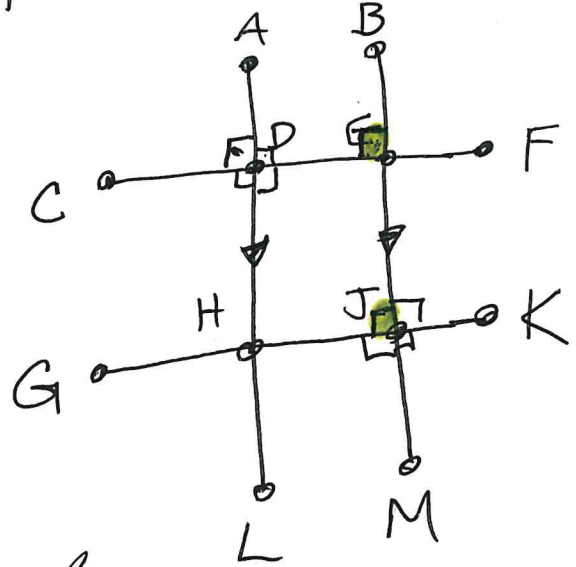
$\textcircled{5}$ Supplementary

$\textcircled{6}$ Both 120°

Transitive
prop

Lesson 18: Hwk: pgs. 109-110 #1, 2

1.) Given $\triangleright \overline{AL} \parallel \overline{BM}, \overline{AL} \perp \overline{CF}, \overline{GK} \perp \overline{BM}$
prove $\triangleright \overline{CF} \parallel \overline{GK}$



Statements

Reasons

① See Above

① Given

② $\angle CDA \cong \angle DEB$

② 90° corr. \angle 's

③ $\angle DEB \cong \angle HJE$

③ 90° corr. \angle 's

④ $\overline{CF} \parallel \overline{GK}$

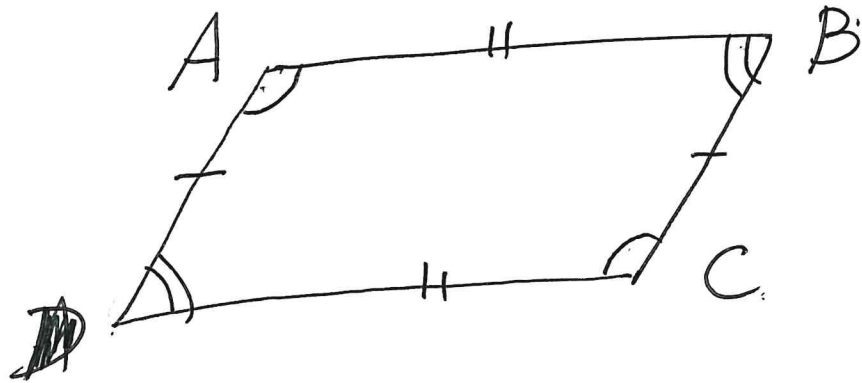
④ Corr. \angle 's

~~⑤~~

~~⑤~~

2.) Given \triangleright Shape is parallelogram.
 $m\angle C \cong m\angle B$ are supp.
 $m\angle A \cong m\angle C$

Prove $\triangleright \overline{AD} \parallel \overline{BC}$



Statements	Reasons
① See Above	① Given
② $m\angle A + m\angle D = 180^\circ$	② supplementary same-side int \angle 's
③ $m\angle A + m\angle B = 180^\circ$	③ same-side int \angle 's
④ $m\angle D + m\angle C = 180^\circ$	④ same-side int \angle 's
⑤ $\overline{AD} \parallel \overline{BC}$	⑤ same-side int \angle 's