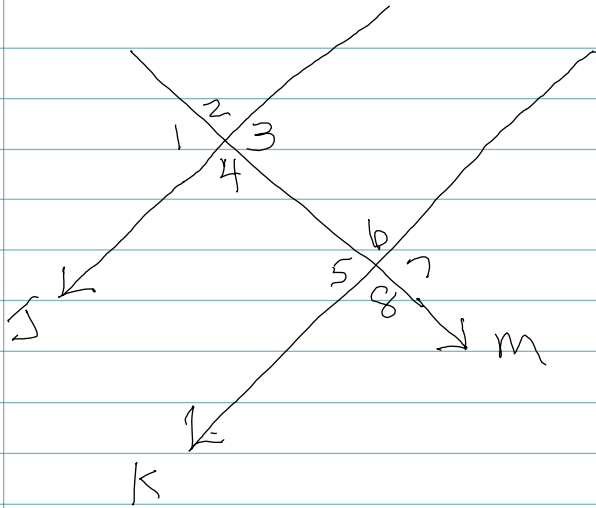


Day 12 → Apply the Vocabulary to show that  $\vec{J}$  and  $\vec{K}$  are parallel.



given: Lines  $\vec{J}$  and  $\vec{K}$   
Transversal  $M$

Prove:  $\vec{J} \parallel \vec{K}$  by  
writing 3 different  
things that would  
help you prove the  
lines parallel, make  
sure you use the  
vocabulary for parallel  
lines:

i.e. ∴ if  $\angle 1 = \angle 7$  then the lines  $\vec{J} \parallel \vec{K}$  because of  
alternate exterior angles are equal

1) if  $\angle 1 = \angle 5$  then the lines  $\vec{J} \parallel \vec{K}$  because of  
corresponding  $\angle$ 's are equal

2) if  $\angle 3 + \angle 6 = 180^\circ$  then the lines  $\vec{J} \parallel \vec{K}$  because  
same side interior  $\angle$ 's =  $180^\circ$  (supplementary)

3) if  $\angle 3 = \angle 5$  then the lines  $\vec{J} \parallel \vec{K}$  because  
alternate interior  $\angle$ 's are equal