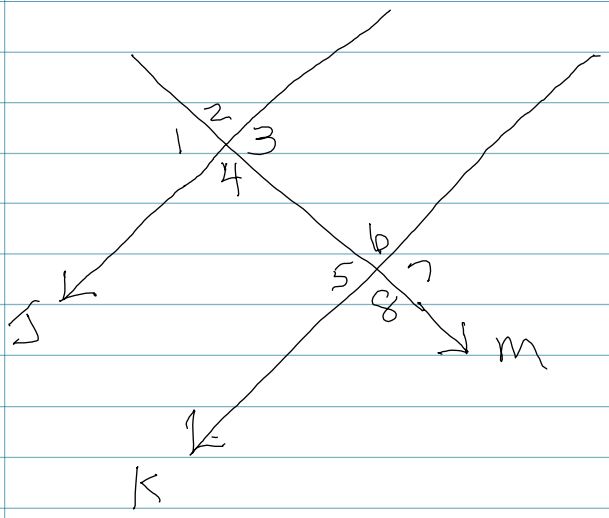
Day 12 - Apply the Vocabulary to show that $\overleftrightarrow{J}$ and $\overleftrightarrow{K}$ are parallel.



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

Prove: $\overleftrightarrow{J} \parallel \overleftrightarrow{K}$ 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 $\overleftrightarrow{J} \parallel \overleftrightarrow{K}$ because of alternate exterior angles are equal

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

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

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