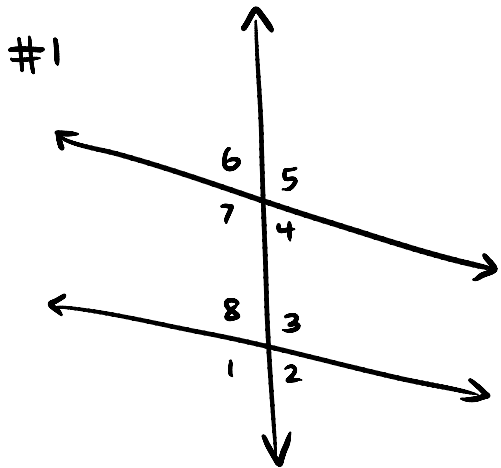


Sec 4.5

Pgs. 196 #1-4, 5ab

#1



a. alt. interior \sphericalangle 's
 $\sphericalangle 3$ and $\sphericalangle 7$
 $\sphericalangle 4$ and $\sphericalangle 8$

b. alt. exterior \sphericalangle 's
 $\sphericalangle 1$ and $\sphericalangle 5$
 $\sphericalangle 2$ and $\sphericalangle 6$

c. corresponding \sphericalangle 's
 $\sphericalangle 1$ and $\sphericalangle 7$
 $\sphericalangle 2$ and $\sphericalangle 4$
 $\sphericalangle 3$ and $\sphericalangle 5$
 $\sphericalangle 8$ and $\sphericalangle 6$

d.) int. \sphericalangle 's on same side of transversal
 $\sphericalangle 7$ and $\sphericalangle 8$
 $\sphericalangle 3$ and $\sphericalangle 4$

e.) ext. \sphericalangle 's on same side of transversal
 $\sphericalangle 1$ and $\sphericalangle 6$
 $\sphericalangle 2$ and $\sphericalangle 5$

#2 a. what name is given to $\sphericalangle 1$ and $\sphericalangle 2$ for \overleftrightarrow{AB} and \overleftrightarrow{CD} ?

corresponding \sphericalangle 's

what is the transversal

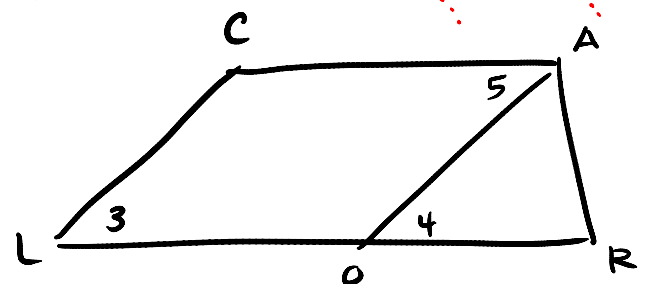
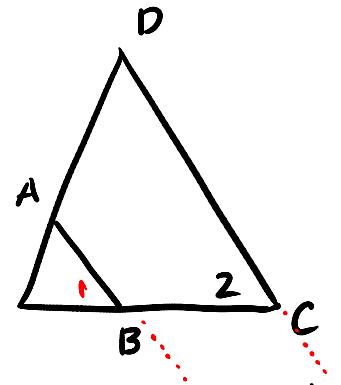
\overleftrightarrow{BC}

b. What type of \sphericalangle 's are 3 and 4
 corresponding \sphericalangle 's

which lines and transversal form them? \overleftrightarrow{CL} and \overleftrightarrow{AO} , \overleftrightarrow{LR}

c.) What type of \sphericalangle 's are 4 and 5?
 alt. interior

Which lines and transversal form them. \overleftrightarrow{CA} and \overleftrightarrow{LR} , \overleftrightarrow{AO}



- a)
#3. Find the coordinates of M, the midpt of \overline{AB} .

$$\left(\frac{7+1}{2}, \frac{14+2}{2}\right) = \left(\frac{8}{2}, \frac{16}{2}\right) = (4, 8)$$

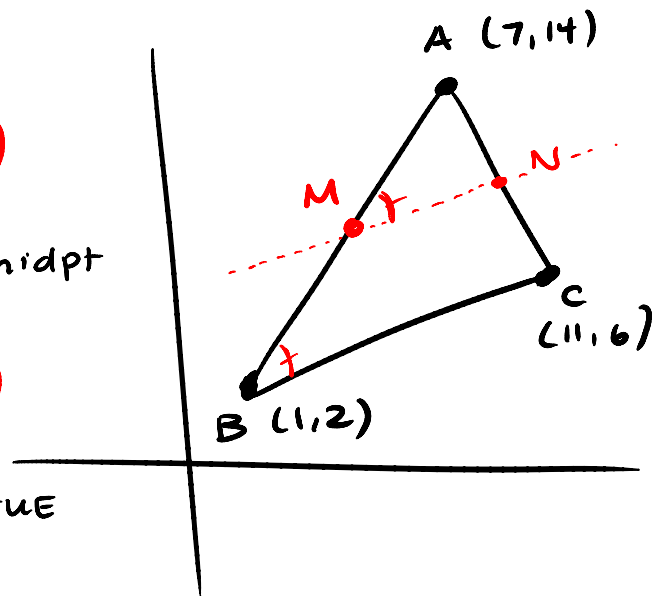
- b) Find the coordinates of N, the midpt of \overline{AC} .

$$\left(\frac{7+11}{2}, \frac{14+6}{2}\right) = \left(\frac{18}{2}, \frac{20}{2}\right) = (9, 10)$$

- c) Draw \overleftrightarrow{MN} . What appears to be true about \overleftrightarrow{MN} and \overleftrightarrow{BC} . **PARALLEL**

- d) What appears to be true about $\angle AMN$ and $\angle ABC$?
CONGRUENT

- e) Name a pair of corresponding \angle 's formed by \overleftrightarrow{MN} and \overleftrightarrow{BC} with transversal \overleftrightarrow{AC} **$\angle ANM$ and $\angle ACB$**

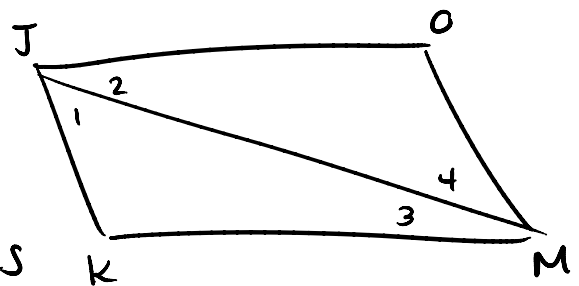


- #4 a) For which pairs of lines are angles 1 and 4 a pair of alt. int. \angle 's

\overleftrightarrow{JK} and \overleftrightarrow{OM}

- b) For which pair of lines are angles 2 and 3 a pair of alt. int. \angle 's

\overleftrightarrow{JO} and \overleftrightarrow{KM}



- c) How many transversals of \overleftrightarrow{JO} and \overleftrightarrow{KM} are shown?

3 \overleftrightarrow{JK}
 \overleftrightarrow{JM}
 \overleftrightarrow{OM}

#5 Locate the following points on a graph: $(x_1, y_1) = (0, 0)$

$$(x_2, y_2) = (4, 5)$$

$$(x_3, y_3) = (0, 3)$$

$$(x_4, y_4) = (4, 8)$$

a.) Find $\frac{y_2 - y_1}{x_2 - x_1} = \frac{5 - 0}{4 - 0} = \frac{5}{4}$

b.) Find: $\frac{y_4 - y_3}{x_4 - x_3} = \frac{8 - 3}{4 - 0} = \frac{5}{4}$

➤ NOTE: // SLOPES

c. parallel (same slope!)

