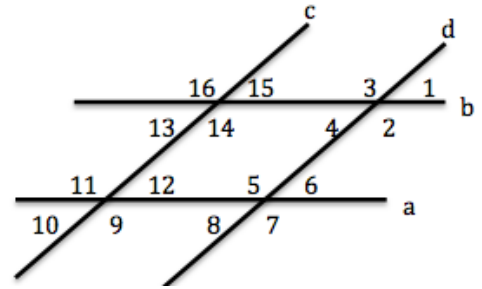


1.) Identify 1 pair of angles that are:

- a.) Corresponding Angles
- b.) Alternate Interior Angles
- c.) Alternate Exterior Angles
- d.) Same Side Interior Angles

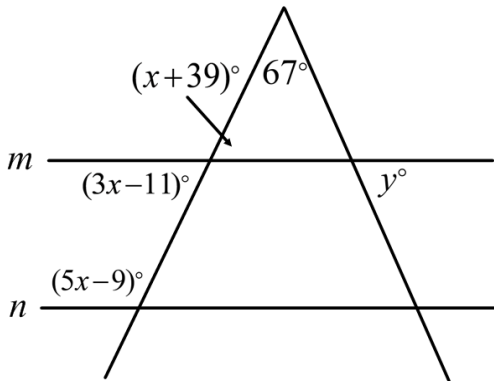
Use the diagram for questions (1) and (2).



2.) Identify which lines are parallel and your reason (AIA, AEA, Corresponding, SSI, SSE)

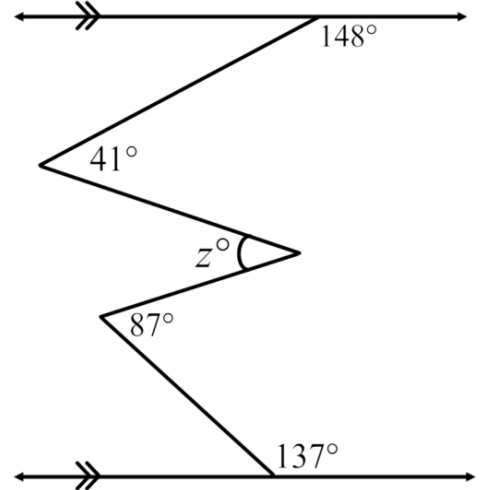
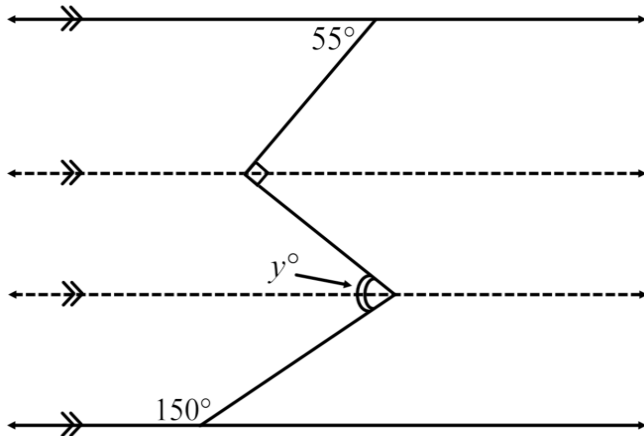
- a.) If  $\angle 4 \cong \angle 6$ , which lines are parallel (circle one)  $a \parallel b$  or  $c \parallel d$ ? Reason: \_\_\_\_\_
- b.) If  $\angle 10 \cong \angle 15$ , which lines are parallel (circle one)  $a \parallel b$  or  $c \parallel d$ ? Reason: \_\_\_\_\_
- c.) If  $\angle 2 \cong \angle 14$ , which lines are parallel (circle one)  $a \parallel b$  or  $c \parallel d$ ? Reason: \_\_\_\_\_
- d.) If  $\angle 11 \cong \angle 16$ , which lines are parallel (circle one)  $a \parallel b$  or  $c \parallel d$ ? Reason: \_\_\_\_\_

3.) a.) Given the diagram, is  $m \parallel n$ ? Show your work.



b.) Find the value of  $y$ .

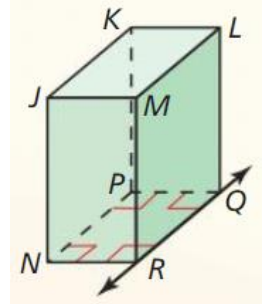
4.) Find the value of the missing variable in the Crook problems below.



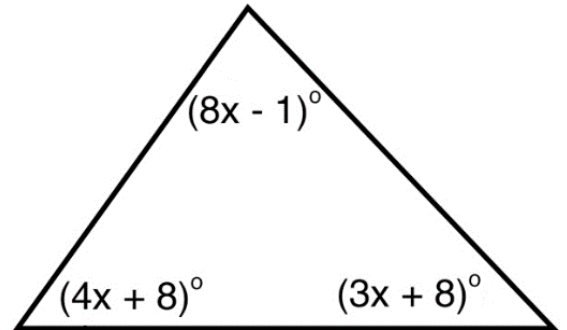
5.) Use the diagram to answer the following questions. You may assume any lines that appear to be parallel or perpendicular are so.

a.) Is  $\overline{JK} \parallel \overline{RQ}$ ?

b.) Are  $\overline{ML}$  and  $\overline{KP}$  skew lines? Briefly explain.



6.) Find the measure of each angle in the triangle below.



7.) Is  $m \parallel n$ ? Briefly explain and justify your answer.

