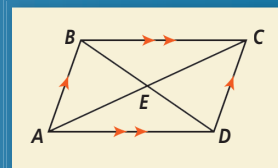


## 6-2 Solve It!



### Getting Ready!

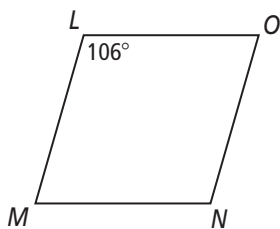
Use the information given in the diagram. Which triangles are congruent? How do you know?



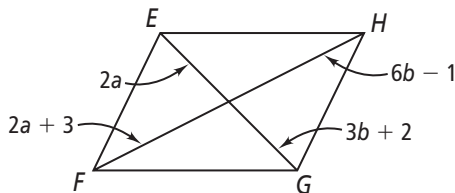
Don't settle for your answer too soon! Be sure to find all pairs of congruent triangles.

## 6-2 Lesson Quiz

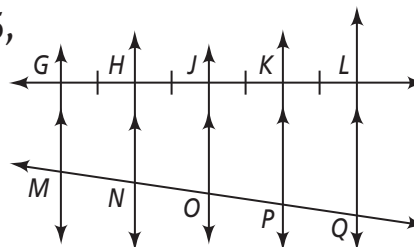
1. What is  $m\angle O$  in  $\square LMNO$ ?



2. Solve a system of linear equations to find the values of  $a$  and  $b$  in  $\square EFGH$ . What are  $EG$  and  $FH$ ?



3. Do you UNDERSTAND? If  $MQ = 29.5$ , what is  $MN$ ?



## Answers

### Solve It!

You can show  $\triangle BAD \cong \triangle DCB$  and  $\triangle BAC \cong \triangle DCA$  by ASA. Then you can use the fact that corresp. parts of  $\cong \triangle$  are  $\cong$ ,

and that vert.  $\triangle$  are  $\cong$  to show that  $\triangle ABE \cong \triangle CDE$  by ASA or AAS, and  $\triangle BCE \cong \triangle DAE$  by ASA, AAS, or SAS.

### Lesson Quiz

- 74
- $EG = 16, FH = 22$
- 7.375