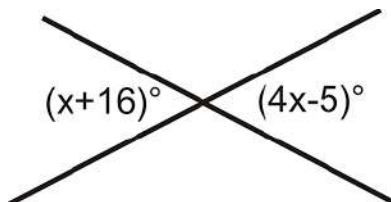


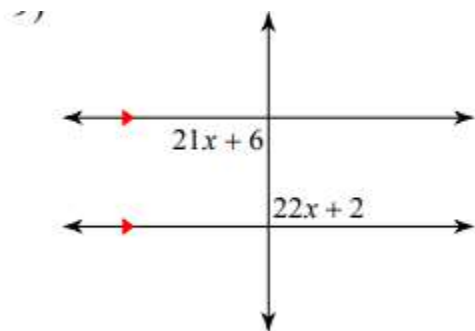
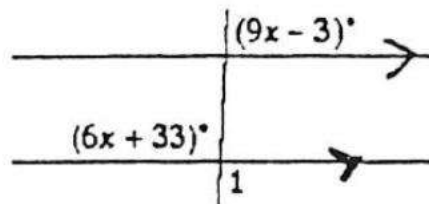
2.1 – 2.2 Quiz Review

1. Solve for the variable using what you know about angle relationships. *Show Work.*

a.



b.



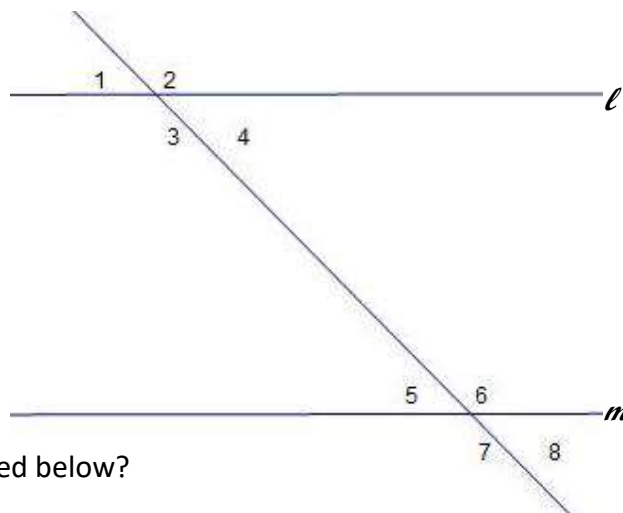
For questions 1-7 use the image on the right. For all questions, lines  $\ell$  and  $m$  are parallel.

1) List all the pairs of corresponding angles.

2) List all the pairs of alternate exterior angles.

3) List all the pairs of vertical angles.

4) List all the pairs of same side interior angles.



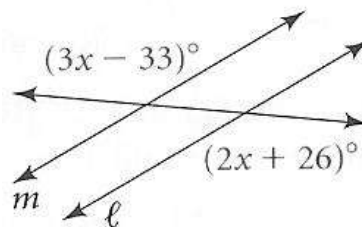
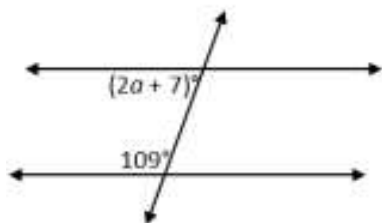
What vocabulary term best classifies the angle pairs listed below?

5)  $\angle 3$  and  $\angle 6$  or  $\angle 4$  and  $\angle 5$

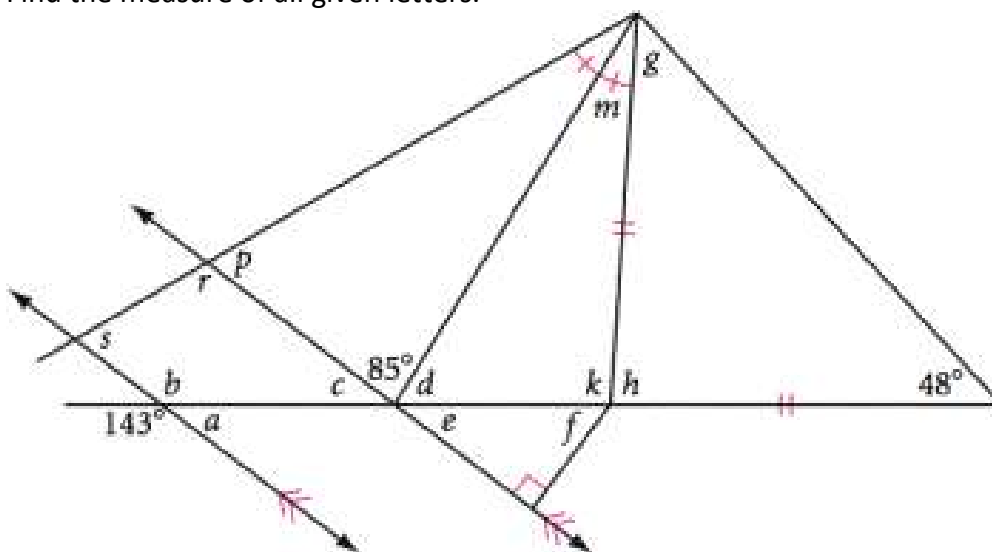
6)  $\angle 5$  and  $\angle 6$  or  $\angle 2$  and  $\angle 4$  or  $\angle 5$  and  $\angle 7$

7)  $\angle 1$  and  $\angle 7$  or  $\angle 2$  and  $\angle 8$

Find the value of the variable to make the lines parallel.

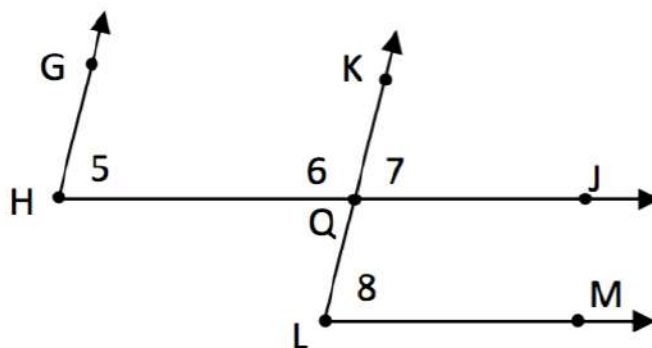


Find the measure of all given letters.

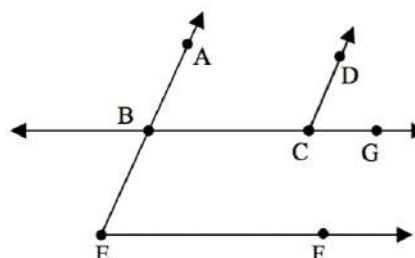


6. Given:  $\overrightarrow{HJ} \parallel \overrightarrow{LM}$   
 $\overrightarrow{HG} \parallel \overrightarrow{LK}$

Prove:  $m\angle 5 = m\angle 8$



Given:  $\overline{BC} \parallel \overline{EF}$ ,  $\angle BEF \cong \angle DCG$   
 Prove:  $\overline{AB} \parallel \overline{DC}$



In the diagram below,  $\overleftrightarrow{MN} \parallel \overleftrightarrow{AF}$ ,  $m\angle ABC = 34^\circ$ , and  $m\angle FBD = 53^\circ$ .

Find the measure of each indicated angle. Provide reasoning to support your answers.

a.  $m\angle EBF =$  \_\_\_\_\_

Reason \_\_\_\_\_

b.  $m\angle EBA =$  \_\_\_\_\_

Reason \_\_\_\_\_

c.  $m\angle DBC =$  \_\_\_\_\_

Reason \_\_\_\_\_

d.  $m\angle EKN =$  \_\_\_\_\_

Reason \_\_\_\_\_

d.  $m\angle MKB =$  \_\_\_\_\_

Reason \_\_\_\_\_

