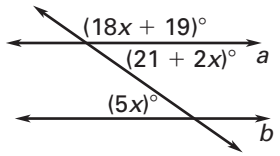
NAME _____ DATE _____

Practice C

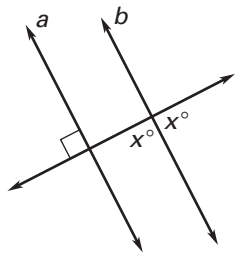
For use with pages 157–164

Explain how you would show that $a \parallel b$.

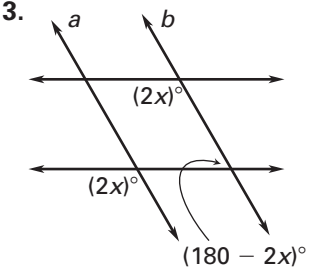
1.



2.

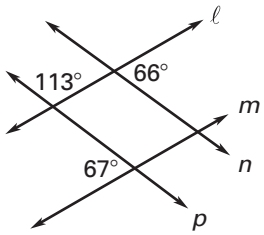


3.

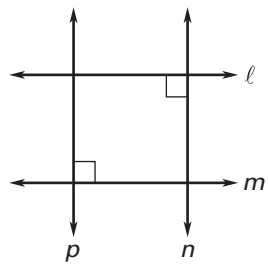


Determine which lines, if any, must be parallel. Explain your reasoning.

4.



5.



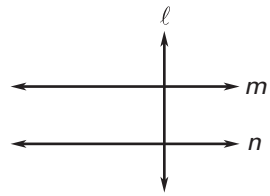
6. Draw an obtuse angle. Construct an angle congruent to it.

7. Draw a horizontal line. Construct a line parallel to it through a point not on the line.

8. Proof: Write a two-column proof of Theorem 3.12.

Given: $m \perp \ell$, $n \perp \ell$

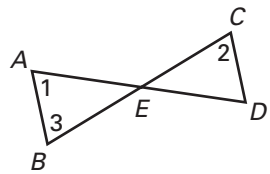
Prove: $m \parallel n$



9. Proof: Write a two-column proof.

Given: $\angle 1 \cong \angle 2$, $\angle 1 \cong \angle 3$

Prove: $\overline{AB} \parallel \overline{CD}$



10. Proof: Write a two-column proof.

Given: $\angle 1 \cong \angle 2$, $\angle 3 \cong \angle 4$

Prove: $\ell \parallel m$