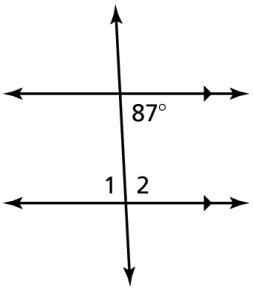
Name _____ Date _____

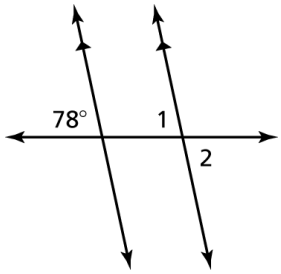
3.2 Practice A

In Exercises 1 and 2, find $m\angle 1$ and $m\angle 2$. Tell which theorem you used in each case.

1.

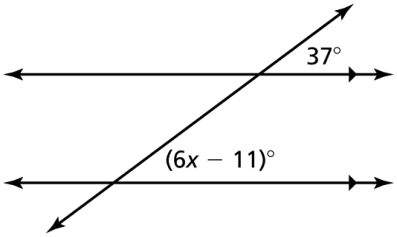


2.

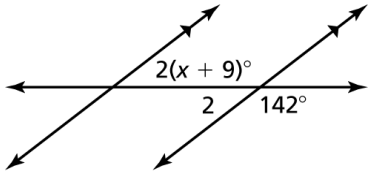


In Exercises 3 and 4, find the value of x. Show your steps.

3.

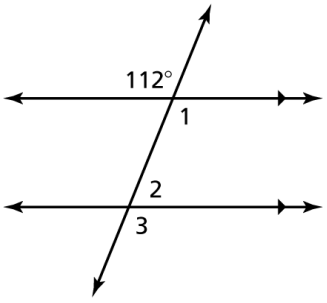


4.

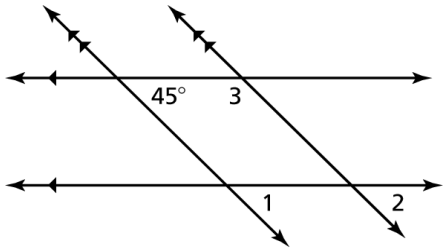


In Exercises 5 and 6, find $m\angle 1$, $m\angle 2$, and $m\angle 3$. Explain your reasoning.

5.

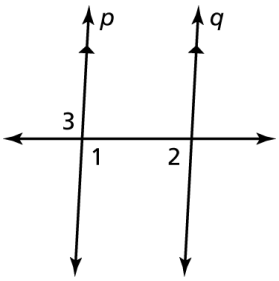


6.



7. Prove the Corresponding Angles Theorem (Thm. 3.1).

8. Prove that if $\angle 1 \cong \angle 2$, then $\angle 2 \cong \angle 3$. What is $m\angle 1$? Explain.

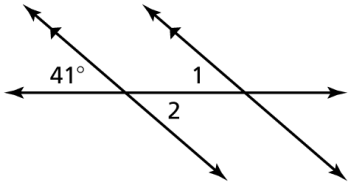


Name_____ Date _____

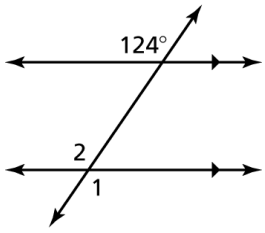
3.2 Practice B

In Exercises 1 and 2, find $m\angle 1$ and $m\angle 2$. Tell which theorem you used in each case.

1.

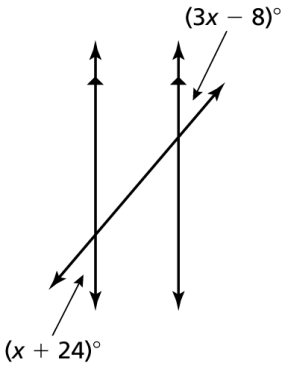


2.

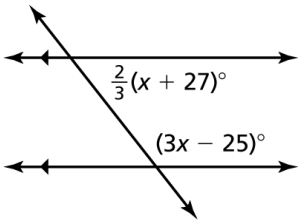


In Exercises 3 and 4, find the value of x. Show your steps.

3.

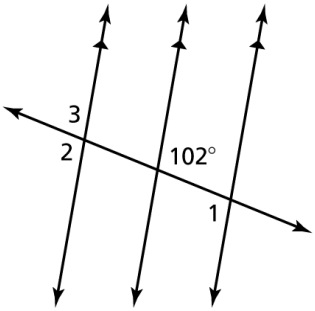


4.

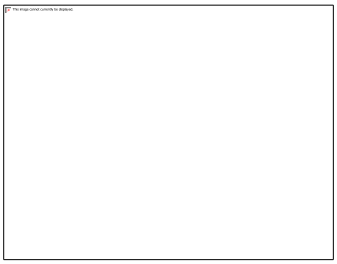


In Exercises 5 and 6, find $m\angle 1$, $m\angle 2$, and $m\angle 3$. Explain your reasoning.

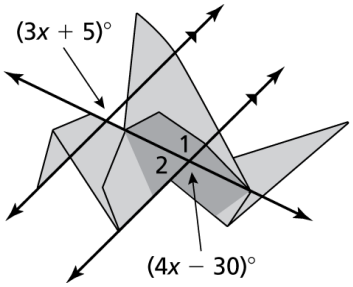
5.



6.



7. The figure shows a two-dimensional representation of a bird made out of origami paper. Find $m\angle 1$ and $m\angle 2$. Explain your reasoning.



8. The figure shows three pairs of parallel lines. Which angles are congruent to $\angle 1$? Tell which theorem you used in each case.