

Review Properties of Special Angles in Parallel lines

Vocabulary and Core Concept Check

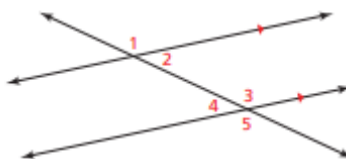
- WRITING** How are the Alternate Interior Angles Theorem and the Alternate Exterior Angles Theorem alike? How are they different?
- WHICH ONE DOESN'T BELONG?** Which pair of angle measures does *not* belong with the other three? Explain.

$m\angle 1$ and $m\angle 3$

$m\angle 2$ and $m\angle 4$

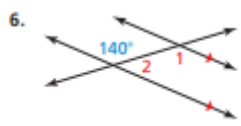
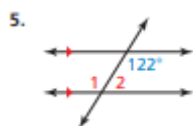
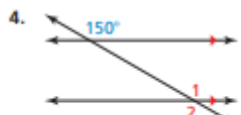
$m\angle 2$ and $m\angle 3$

$m\angle 1$ and $m\angle 5$

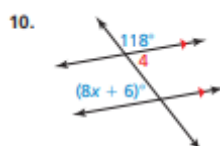
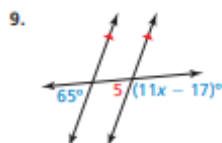
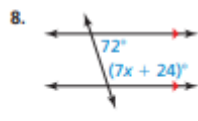


Monitoring Progress and Modeling with Mathematics

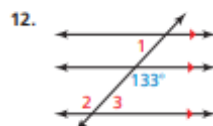
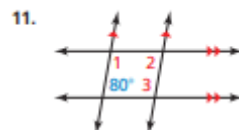
In Exercises 3–6, find $m\angle 1$ and $m\angle 2$. Tell which theorem you use in each case. (See Example 1.)



In Exercises 7–10, find the value of x . Show your steps. (See Examples 2 and 3.)



In Exercises 11 and 12, find $m\angle 1$, $m\angle 2$, and $m\angle 3$. Explain your reasoning.



13. **ERROR ANALYSIS** Describe and correct the error in the student's reasoning.



$\angle 9 = \angle 10$ by the Corresponding Angles Theorem.