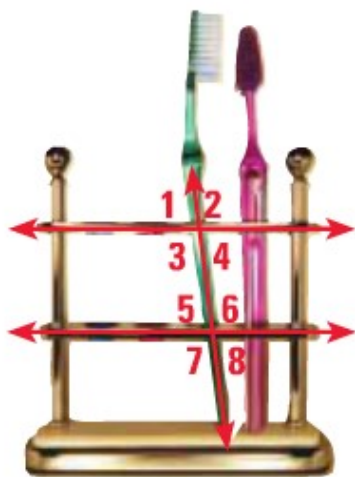


Homework:

2. ★ **WRITING** Two parallel lines are cut by a transversal. Which pairs of angles are congruent? Which pairs of angles are supplementary?

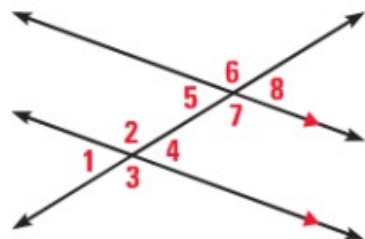
USING PARALLEL LINES Find the angle measure. Tell which postulate or theorem you use.

4. If $m\angle 4 = 65^\circ$, then $m\angle 1 = \underline{\hspace{1cm}}$.
6. If $m\angle 5 = 71^\circ$, then $m\angle 4 = \underline{\hspace{1cm}}$.
8. If $m\angle 8 = 54^\circ$, then $m\angle 1 = \underline{\hspace{1cm}}$.

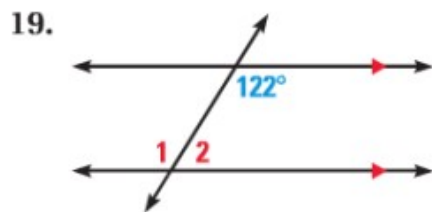
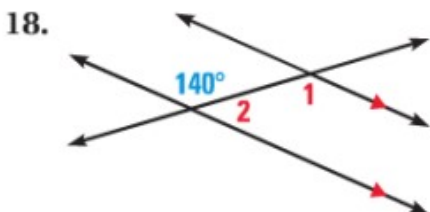
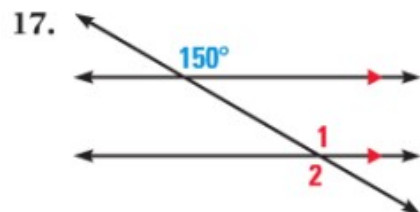


USING POSTULATES AND THEOREMS What postulate or theorem justifies the statement about the diagram?

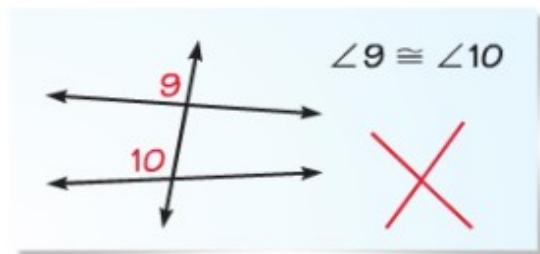
10. $\angle 4 \cong \angle 5$
12. $\angle 2$ and $\angle 5$ are supplementary.
14. $\angle 3 \cong \angle 7$
16. $\angle 4$ and $\angle 7$ are supplementary.



USING PARALLEL LINES Find $m\angle 1$ and $m\angle 2$. Explain your reasoning.

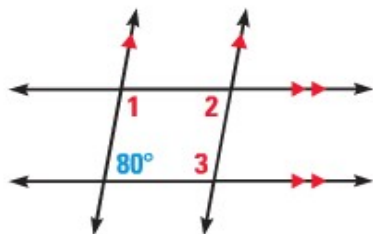


20. **ERROR ANALYSIS** A student concludes that $\angle 9 \cong \angle 10$ by the Corresponding Angles Postulate. Describe and correct the error in this reasoning.

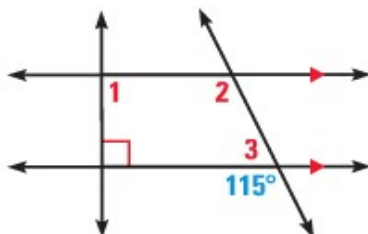


USING PARALLEL LINES Find $m\angle 1$, $m\angle 2$, and $m\angle 3$. Explain your reasoning.

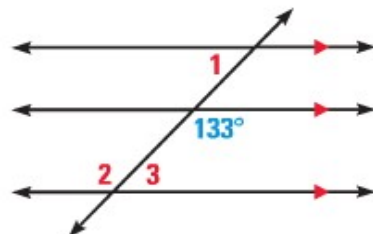
22.



23.

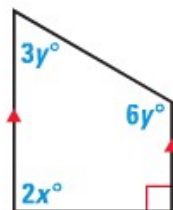


24.

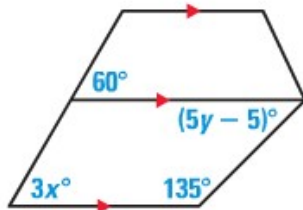


xy ALGEBRA Find the values of x and y .

28.



30.



32.

