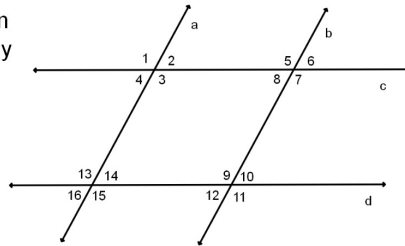


Geometry Bellwork Monday, December 2, 2013

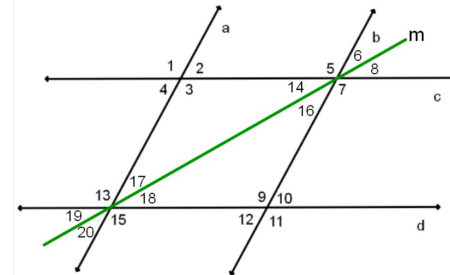
Use the figure at the right and the given information to determine if there are any parallel lines. If yes, state which lines are parallel and give a reason.



1. $\angle 1 \cong \angle 5$
2. $\angle 9$ supp with $\angle 5$
3. $\angle 6 \cong \angle 14$
5. $\angle 1$ supp with $\angle 4$

4. $\angle 10 \cong \angle 16$

Name the parallel lines and the transversal that form each pair of angles then name the angles.



8. $\angle 1$ & $\angle 15$

6. $\angle 8$ & $\angle 18$

7. $\angle 7$ & $\angle 4$

9. $\angle 17$ & $\angle 16$

10. Find the measure of one interior angle of a regular 24-gon.

11. Find the number of sides of a regular polygon if the measure of one interior angle is 135°

12. Can a polygon have a sum of its interior angles equal to 4200° ?