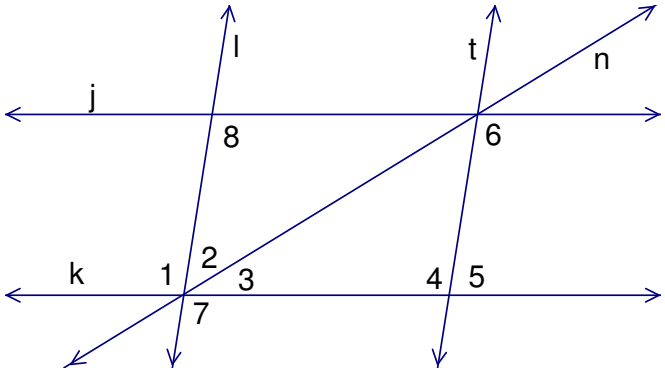
Name_____Date_____Color_____

Parallel Lines Geometry

In the picture below, what two lines are parallel if the given information is true?



1. $m\angle 1 = m\angle 4$

2. $m\angle 6 = m\angle 4$

3. $m\angle 2 + m\angle 3 = m\angle 5$

4. $m\angle 2 + m\angle 3 + m\angle 8 = 180°$

5. $\angle 6 \cong \angle 8$

6. $\angle 7 \cong \angle 1$

7. $m\angle 1 = m\angle 8 = 75°$

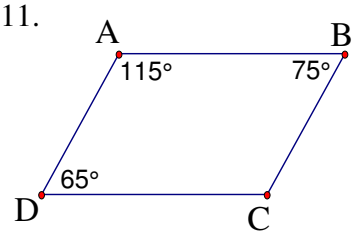
8. $\angle 5$ and $\angle 6$ are supplementary

9. $\angle 4$ and $\angle 5$ are supplementary

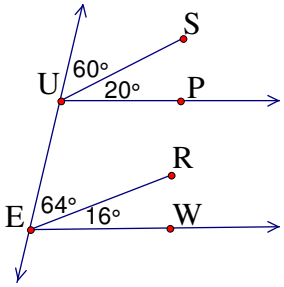
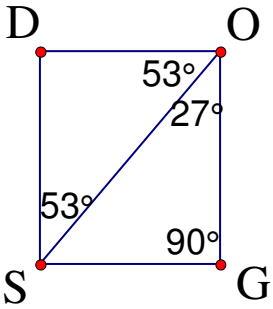
10. $\angle 2$ and $\angle 3$ are complementary and $m\angle 5 = 90°$

Determine which segments are parallel. Justify your answer.

11.



12.



13.