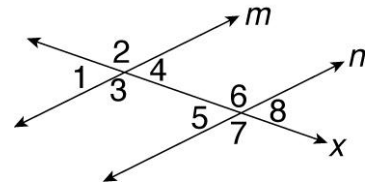


## Geometric Relationships

**Write on your own sheet of paper. You will not turn this worksheet in.**

1. Measure the angles formed by the transversal and the parallel lines. Which angles seem to be congruent?



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\_\_\_\_\_

**In the figure, line  $m \parallel$  line  $n$ . Find the measure of each angle. Justify your answer.**

2.  $\angle 1$

3.  $\angle 2$

\_\_\_\_\_

\_\_\_\_\_

4.  $\angle 5$

5.  $\angle 6$

\_\_\_\_\_

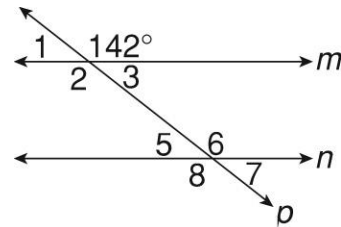
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6.  $\angle 8$

7.  $\angle 7$

\_\_\_\_\_

\_\_\_\_\_



**In the figure, line  $a \parallel$  line  $b$ . Find the measure of each angle. Justify your answer.**

8.  $\angle 2$

9.  $\angle 5$

\_\_\_\_\_

\_\_\_\_\_

10.  $\angle 6$

11.  $\angle 7$

\_\_\_\_\_

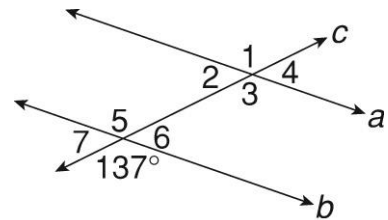
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12.  $\angle 4$

13.  $\angle 3$

\_\_\_\_\_

\_\_\_\_\_



**In the figure, line  $r \parallel$  line  $s$ .**

14. Name all angles congruent to  $\angle 2$ .

\_\_\_\_\_

15. Which line is the transversal?

\_\_\_\_\_

