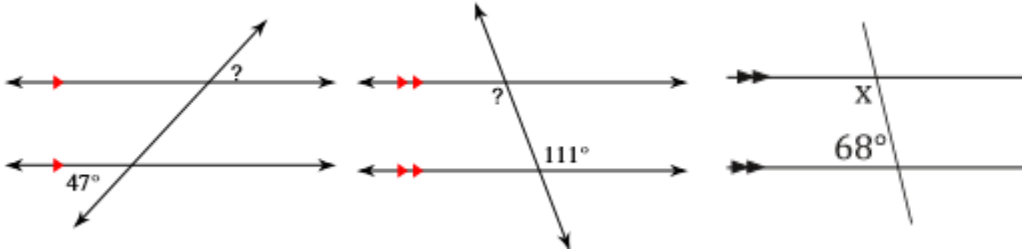
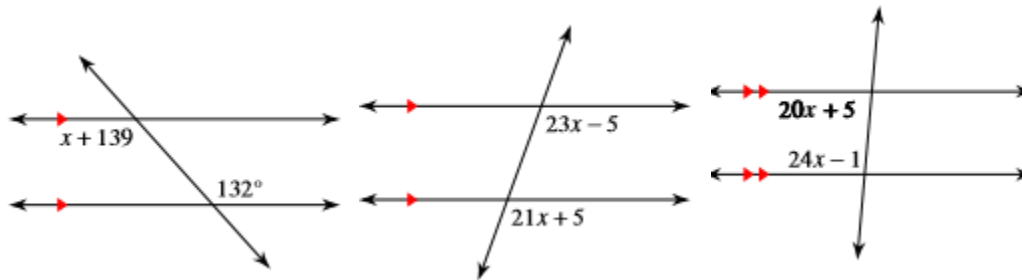


Properties of Transversals Homework

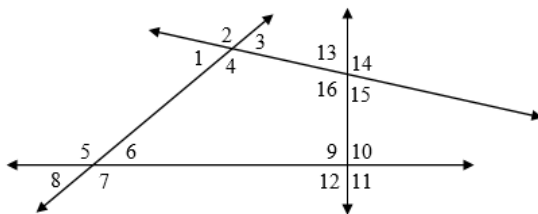
1. For each of the following, identify the angle pair, state the relationship (congruent or supplementary), then find the missing value.



2. For each of the following, identify the angle pair, state the relationship (congruent or supplementary), solve for x , and then find the size of the angles. Show all work.

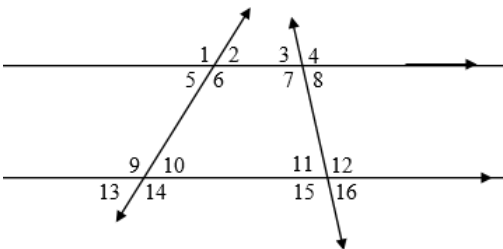


3. Identify each angle pair for the diagram below.



- $\angle 3$ and $\angle 13$ _____
- $\angle 8$ and $\angle 10$ _____
- $\angle 11$ and $\angle 15$ _____
- $\angle 8$ and $\angle 6$ _____
- $\angle 1$ and $\angle 6$ _____
- $\angle 6$ and $\angle 10$ _____
- $\angle 14$ and $\angle 15$ _____

4. Let $m\angle 1 = 115^\circ$ and $m\angle 12 = 110^\circ$. Find the measure of each of the following angles.



- $m\angle 9 =$ _____
- $m\angle 10 =$ _____
- $m\angle 8 =$ _____
- $m\angle 3 =$ _____
- $m\angle 4 =$ _____
- $m\angle 11 =$ _____
- $m\angle 5 =$ _____