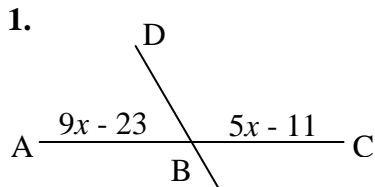


Reasoning with Rules

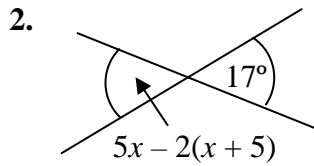


Name _____

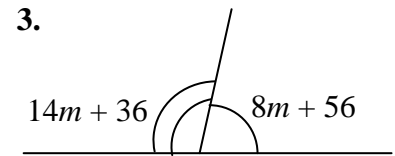
Directions: Assume all segments that appear to be straight, are straight. Diagrams not to scale. State the rule you used to solve the problem.



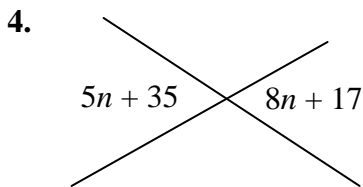
\overline{DE} bisects \overline{AC}
Find x , AB and BC



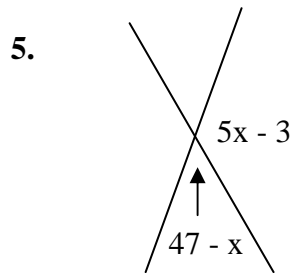
Find x .



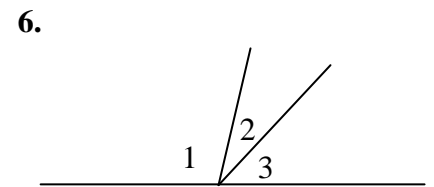
Find m and both angles.



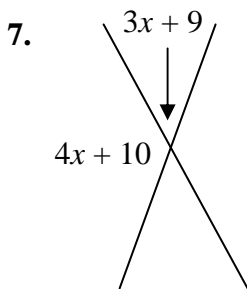
Find n and all four angles.



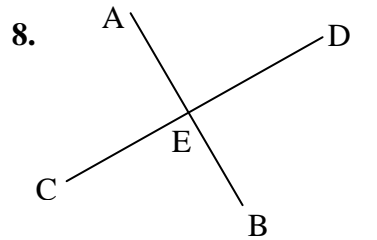
Find x and all four angles.



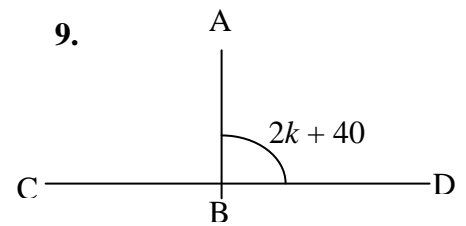
Angles 1, 2 and 3 are in the ratio of 7 : 2 : 3. Find all three angles.



Find x and all four angles.

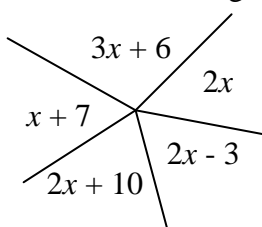


\overline{AB} bisects \overline{CD} ;
 $CE = 5x + 7$; $ED = 7x - 5$.
Find x , CE , ED , and CD .

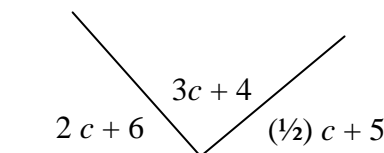


$\overline{AB} \perp \overline{CD}$. Find k .

10. Find x and all angles.



11. Find c and all angles.



12. Find x and all angles.

