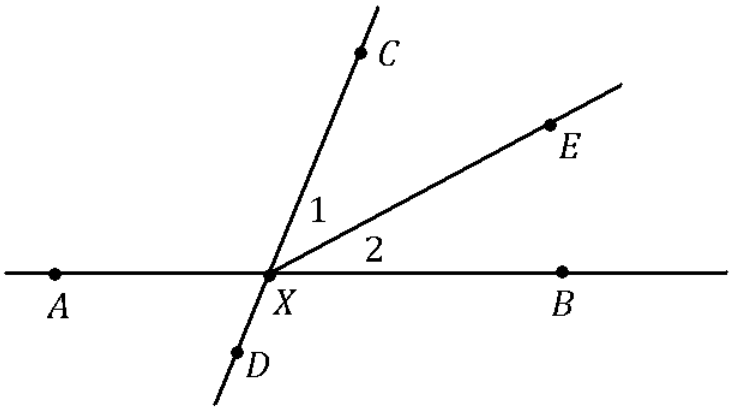
DIRECTIONS: Name the definition, postulate, theorem, or property that most accurately justifies each statement. Use the following diagram and the given information.

Given: X is the midpoint of $\overline{AB}$; $\overrightarrow{XE}$ bisects $\measuredangle CXB$



1. $CX + XD = CD$

2. $AX = XB$

3. $\measuredangle AXC \cong \measuredangle DXB$

4. $m\measuredangle 1 = m\measuredangle 2$

5. $m\measuredangle 1 = \frac{1}{2}(m\measuredangle CXB)$

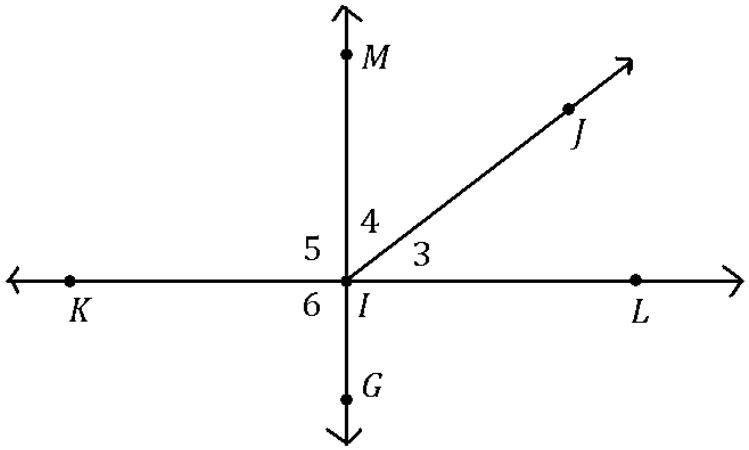
6. $XE = XE$

7. $AX = \frac{1}{2}AB$

8. $m\measuredangle AXE + m\measuredangle EXB = 180$

DIRECTIONS: Name the definition, postulate, theorem, or property that most accurately justifies each statement. Use the following diagram and the given information.

Given: $m\measuredangle 2 = m\measuredangle 3$; $\overline{MG} \perp \overline{KL}$; $KI = IL$; $IL = MI$



9. $\measuredangle 5 \cong \measuredangle 6$

10. $KI = MI$

11. I is the midpoint of $\overline{KL}$

12. $\measuredangle 5 \cong \measuredangle LIG$

13. $2(KI) = 2(IL)$

14. $\measuredangle 5$ is a right angle

15. $\overrightarrow{IJ}$ bisects $\measuredangle MIL$

16. $m\measuredangle 3 + m\measuredangle 4 = m\measuredangle MIL$