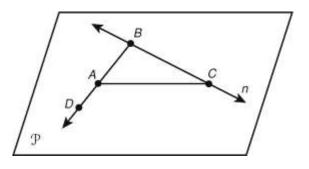
Basics of Geometry III

Use the picture for 1-4.

- 1. Name a line. _____
- 2. Name a segment on line *n*.
- 3. Name a ray with endpoint *A*._____
- 4. Name the plane. _____

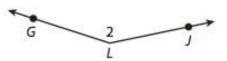


Sketch each figure for 5-6.

5. two rays that form a straight line and that intersect at point P.

6. two line segments that both have a midpoint at point M.

7. Name the angle in as many ways as possible.



Determine the measure of each angle. Then describe each angle as acute, right, obtuse, or straight.

8.	9.	10.
B	A.F.	K M
c	m∠ <i>DEF</i> =	m∠ <i>KLM</i> =
m∠ <i>ABC</i> =		

11. *S* is the midpoint of \overline{RT} , RS = 2x + 4, and RT = 8x. Find *ST*.

12. R, S, and T are collinear, and S is between R and T. If RS = x + 1, ST = 2x - 2, and RT = 5x - 5, find RT.

13. \overrightarrow{XZ} bisects $\angle WXY$, and m $\angle WXZ = 90^{\circ}$. Find m $\angle WXY$.

14. $m \angle PQR$ if \overrightarrow{QT} bisects $\angle PQR$, $m \angle RQT = (10x - 13)^\circ$, and $m \angle PQT = (6x + 1)^\circ$.

15.

