

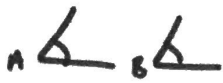
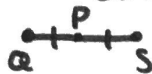


Key terms:

- Straight line/Straight angle- has a measure of 180° . 
- Collinearity- On the same line (A, B, C, D)
- Right angle- measure of 90° (\perp)
- Congruent segments- have the same length/measure 
- Congruent angles- have the same measure 
- Bisect- to cut a segment or angle into 2 \cong parts or angles.
- Midpoint- \rightarrow a point that divides a segment into 2 \cong parts.

When interpreting diagrams...



You Should Assume:

- Straight lines/angles
- Collinearity of points (are they on the same line?)
- betweenness of points
- relative position of points.

You Should NOT assume:

- right angles
- \cong segments
- \cong angles (Except for vertical angles, you can assume those)
- relative sizes of segments & angles.
- Parallel lines

Use the diagram below, and determine whether you can make the given assumption.

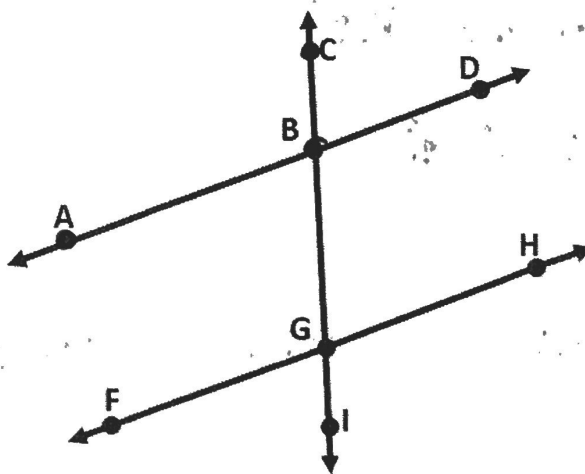
1) $\overline{AD} \parallel \overline{FH}$ NO

2) $\angle ABD$ is a straight \angle

Yes

3) C, B, & A are non-collinear

Yes



Use the diagram below, and determine whether you can make the given assumption.

4) $\angle ABC \cong \angle IGH$

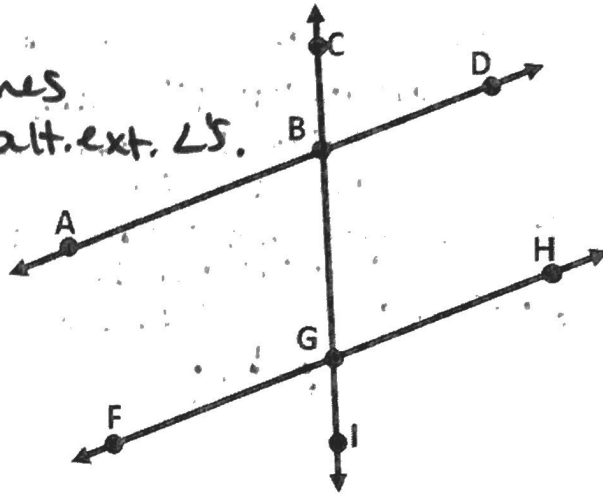
NO, we don't know if lines are \parallel . So can't assume alt. ext. \angle s.

5) \overline{CB} bisects \overline{FH}

NO

6) $\angle ABC \cong \angle DBG$

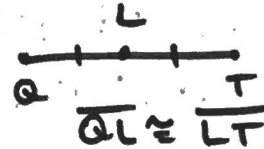
Yes, can assume vertical angles.



Describe the meaning of each symbol or phrase:

1) L is the midpoint of \overline{QT}

L is cutting \overline{QT} into two \cong parts.



2) $m\angle R = 28^\circ$

measure of $\angle R$ is equal to 28° .

3) $\overline{HG} \cong \overline{PJ}$

segment \overline{HG} is congruent to segment \overline{PJ} .

4) \overline{AB} segment \overline{AB}

5) \overleftrightarrow{AB} Line \overleftrightarrow{AB}

6) $m\angle JAB + m\angle HIT = 90^\circ$

$\angle JAB$ and $\angle HIT$ are complementary