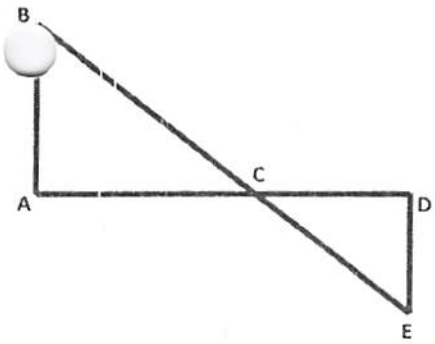
Winston

Warm Up: Use the given figure to place each statement under the correct category.



$\overleftrightarrow{ACD}$ and $\overleftrightarrow{BCE}$ are straight lines.	$\angle B \cong \angle E$.
$\angle$BAC is a right angle.	$\angle CDE$ is an obtuse angle.
$\overline{CD} \cong \overline{DE}$	E is to the right of A.
$\angle$BCE is a straight angle.	$\overline{BC}$ is longer than $\overline{CE}$.
C, D, & E are noncollinear.	C is between B and E.

DO ASSUME	DO NOT ASSUME
- $\overleftrightarrow{ACD}$ & $\overleftrightarrow{BCE}$ are straight lines	- $\angle$BAC is a rt $\angle$
- $\angle$BCE is a straight $\angle$	- $\overline{CD} \cong \overline{DE}$
- C,D,E are noncollinear	- $\angle B \cong \angle E$
- E is to rt of A	- $\angle$CDE is obtuse
- C is between B & E	- $\overline{BC}$ is longer than $\overline{CE}$.

Guided Notes:

You *should* assume:

- Straight lines/angles
- collinearity of points (are they on the same line)
- betweenness of points
- relative positions of points

You *should NOT* assume:

- Right angles
- congruent segments
- congruent angles
- Relative sizes of segments & angles
- Parallel lines

1) $\overline{AD} \parallel \overline{FH}$ – Do not assume

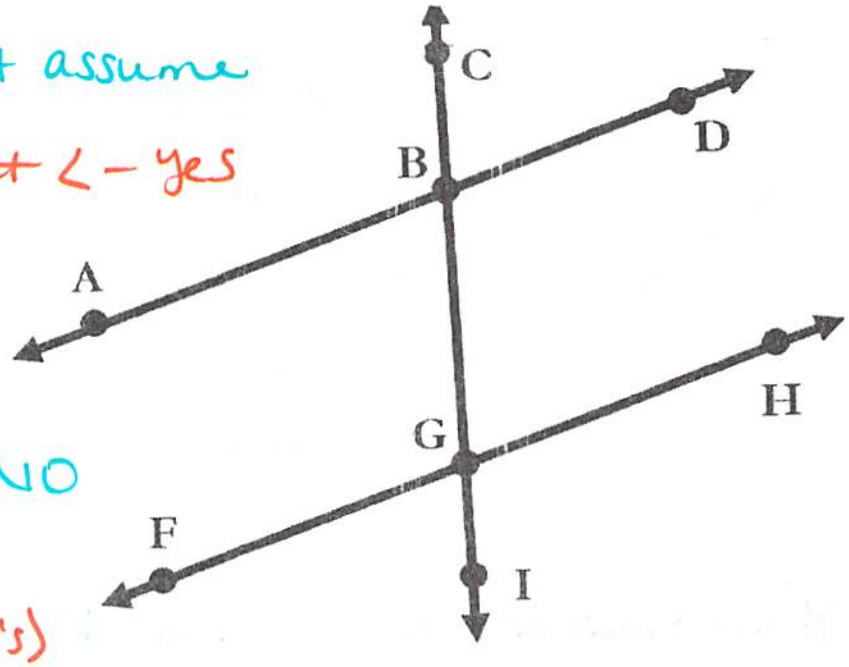
2) $\angle ABD$ is a straight $\angle$ – yes

3) C, B, & A are non-collinear – yes

4) $\angle ABC \cong \angle IGH$ – NO

5) $\overline{CB}$ bisects $\overleftrightarrow{FH}$ – NO

6) $\angle ABC \cong \angle DBG$ – yes (vertical $\angle$'s)



asic Geometry Terms

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

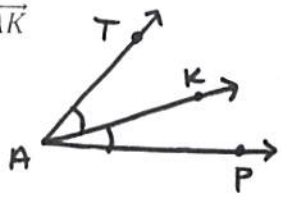
* a midpoint cuts a segment in half (2 $\cong$ parts). $\overline{QL} \cong \overline{LT}$

2) 2) $m\angle R = 28^0$

measurement of $\angle R$ equals 28°

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

4) $\angle TAP$ is bisected by $\overrightarrow{AK}$



5) $m\angle JAB + m\angle HIT = 90^0$

complementary $\angle$'s. (angles that add to 90°).