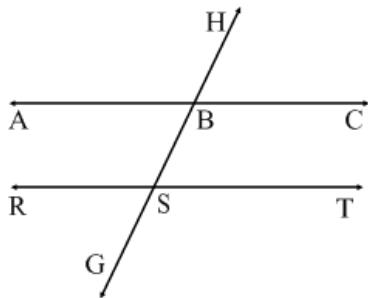
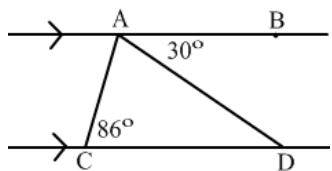


Quiz 1.3 Study Guide

1. In the diagram below, $\overline{AC} \parallel \overline{RT}$ and both lines are intersected by transversal \overline{GH} at points B and S .

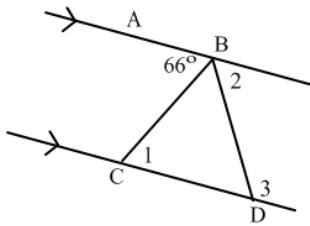


- If $m\angle HBC = 67^\circ$, explain why the measure of angle RSG is 67° .
 - If $m\angle ABS = 62^\circ$, find $m\angle RSB$.
 - If $m\angle CBS = 115^\circ$, find $m\angle TSG$.
 - If $m\angle HBA = 120^\circ$, explain why the measure of angle RSG is 60° .
 - If $m\angle TSG = (3x + 17)^\circ$ and $m\angle CBS = (4x - 13)^\circ$, find x .
2. In the accompanying diagram, $\overline{AB} \parallel \overline{CD}$, $m\angle DAB = 30^\circ$ and $m\angle ACD = 86^\circ$. Find $m\angle CAD$.



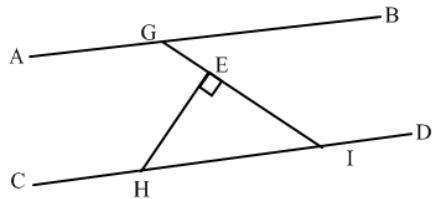
1. _____

3. Using the diagram below, $\overline{AB} \parallel \overline{CD}$, $\overline{BD} \cong \overline{CD}$, and $m\angle ABC = 66^\circ$. Find the measures of angles 1, 2 and 3.



2. $m\angle 1 = \underline{\hspace{2cm}}$ $m\angle 2 = \underline{\hspace{2cm}}$ $m\angle 3 = \underline{\hspace{2cm}}$

4. In the diagram below, $\overline{AB} \parallel \overline{CD}$, $\overline{GI} \perp \overline{EH}$ at E, and $m\angle BGI = 39^\circ$. Find $m\angle EHI$.



3. $\underline{\hspace{2cm}}$

5. Given: $\overline{AB} \parallel \overline{CD}$, $\overline{AC} \cong \overline{BC}$

- a. Explain why $m\angle 1 = m\angle 3 + m\angle 4$.

-
- b. If $m\angle 2 = 80^\circ$, explain why $m\angle 6 = 80^\circ$.
-

- c. Explain why $\angle 2 \cong \angle 3$
-

