

2.3 Drawing Conclusions

Objective: Follow a five-step procedure to draw logical conclusions

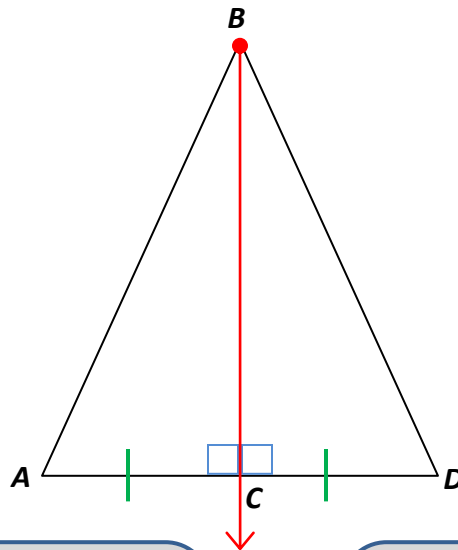
For those of you having trouble with the logical reasoning of proofs, this is the section to help you determine how to make conclusions using the definitions and theorems you have learned so far.

To be successful in solving proofs, follow the suggestions below:

1. **MEMORIZE** your *postulates, definitions and theorems*.
2. If you **use the KEY WORDS** *and SYMBOLS in the GIVEN*, those will guide and allow you to make solid conclusions and aid you in determining which postulate, definition, or theorem you need to support what you are saying

Whatever you state, you must back it up!

With the given information and diagram below you should be able to draw geometric conclusions and back them up with appropriate reasons.



Given: $\overline{BC} \perp \overline{AD}$

Statement: $\angle ACB$ and $\angle DCB$ are right angles

Reason: If \perp , then Rt \angle s

~OR~

Given: \overline{BC} bisects \overline{AD}

Statement: $\overline{AC} \cong \overline{CD}$

Reasons: If bisected, then \cong segments