

Hints for Proofs in Geometry

1st Proof

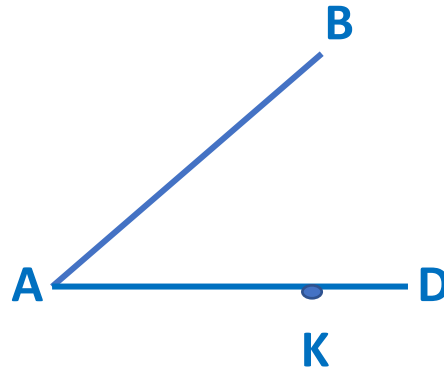
1. Write what is given as Given
2. Write what is to be proved as Prove
3. Draw the picture and label what is given
4. Identify anything else from picture that can be used
5. Think about the definitions, postulates and theorems already introduced
6. Identify what you need to get to the conclusion

- 1st step in proof, write what is given
- 2nd step in proof, infer some relationship

- Last step, what you were trying to prove

Given: \overline{AKD} , $AD = AB$

Prove: $AK + KD = AB$



Statements

Reasons

Given: \overline{XKY}

Prove: $XK = XY - KY$

Given: \overline{OTE}

Prove: $TE = OE - OT$

Given: \overline{RSTV} , $RT = SV$

Prove: $RS = TV$