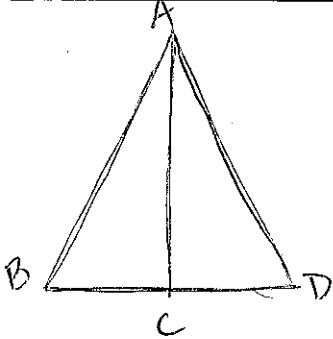
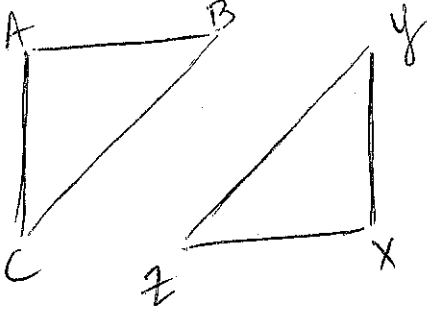
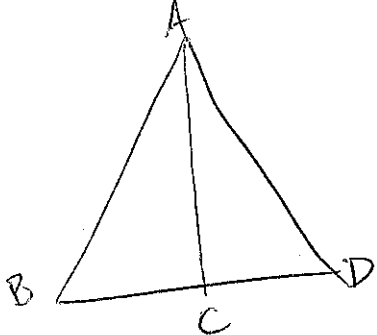
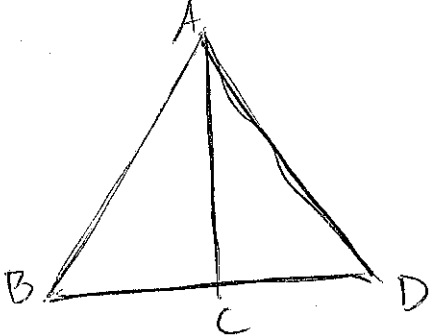
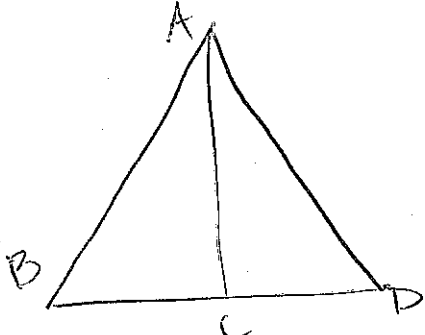


Problem #	Diagram	Given and Prove
1		<p>Given: \overline{AC} is an altitude $\triangle ABD$ is an isosceles \triangle with base \overline{BD}</p> <p>Prove: \overline{AC} bisects $\angle BAD$</p>
2		<p>Given: $\angle A \cong \angle X$ $\angle B \cong \angle Y$</p> <p>Prove: $\angle C \cong \angle Z$</p>
3		<p>Given: $\triangle ABD$ is isosceles w/ base \overline{BD} \overline{AC} is a median</p> <p>Prove: $\triangle ABC \cong \triangle ADC$</p>
4		<p>Given: \overline{AC} is a median \overline{CE} is an altitude</p> <p>Prove: $\triangle ABD$ is isosceles</p>
5		<p>Given: $\triangle ABD$ is isosceles w/ base \overline{BD} \overline{AC} bis $\angle BAD$</p> <p>Prove: $AC \perp BD$</p>