Quiz 4

Show *all* your work on the following. A right answer with no supporting work will receive no credit.

1. [2] Circle the cases below that ensure two triangles who share those properties are congruent. (i.e. they determine a unique triangle.)

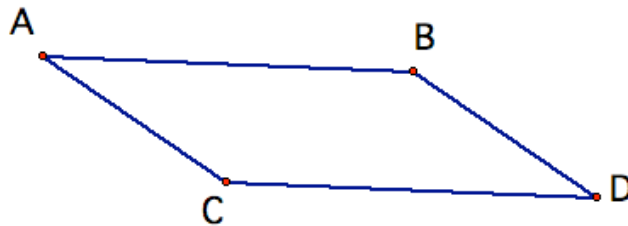   SSS   SSA   SAS   SAA

    ASS   ASA   AAS   AAA

2. [3] Given the following quadrilateral where $AB = CD$ and $AC = BD$, *prove* that $\overrightarrow{AB}$ is parallel to $\overrightarrow{CD}$. (You must use similar triangles.)

3. [5] Consider the triangle ABC below. Construct a circle that circumscribes the triangle ABC.

A

B

C