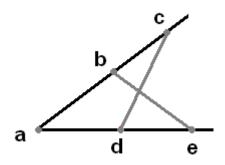
Drawings and additional comments/hints

3. You may assume that the four lines *ab*, *ad*, *cd*, *be* are all distinct.



Also, if we can prove that the line be and segment (cd) have a point in common, switching the roles of various points implies that the line cd and segment (be) have a point in common.

4. The problem should state that the ray [AD bisects the angle.

