An Elementary Solution to the IBM August 1998 Puzzle

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This short article provides an elementary solution for the IBM August 1998 Puzzle (see http://domino.research.ibm.com/Comm/wwwr_ponder.nsf/challenges/August1998.html).

Solution. We will use the following theorem.

Theorem 0.1 In a triangle ABC, |AB| > |BC| iff $\angle BCA > \angle BAC$, where $\angle BCA$ is the angle between CB and CA.

