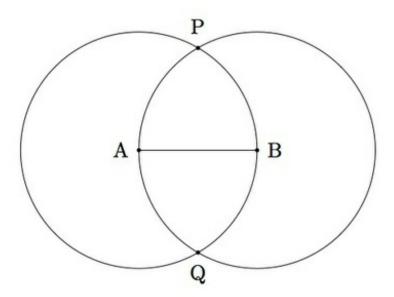


G-CO Construction of perpendicular bisector

Task

Let A and B be two distinct points in the plane and \overline{AB} the segment joining them. The goal of this problem is to construct the perpendicular bisector of segment \overline{AB} .

Draw circles with radius AB centered at A and B respectively as pictured below:



The two points of intersection of these circles are labelled P and Q. Show that line \overrightarrow{PQ} is the perpendicular bisector of \overline{AB} .





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