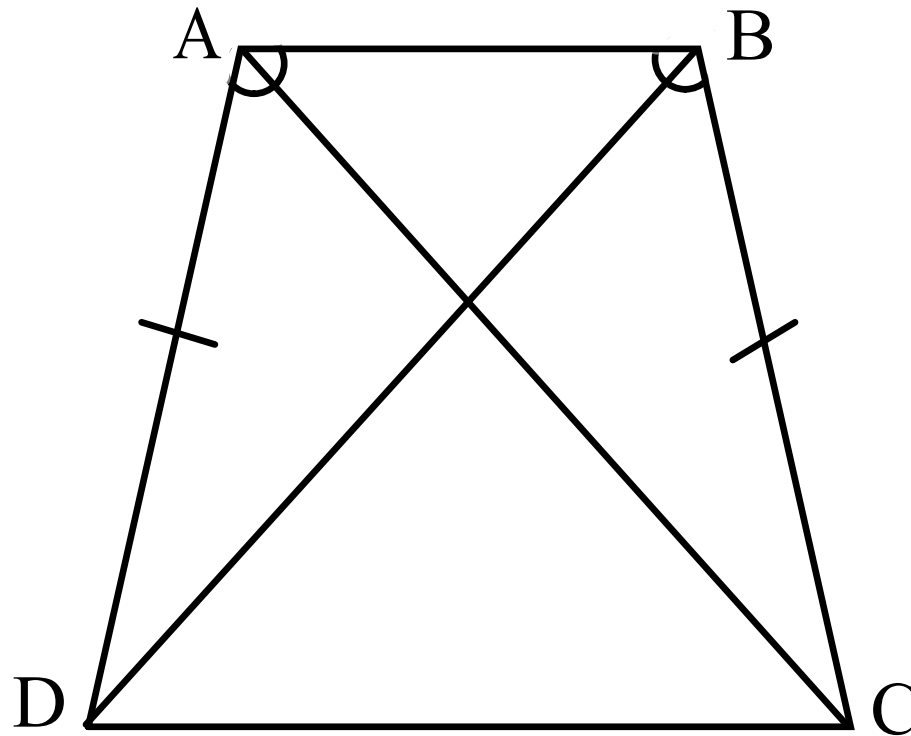


# Geometry

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In the figure below, name a pair of overlapping triangles that are congruent and explain why.

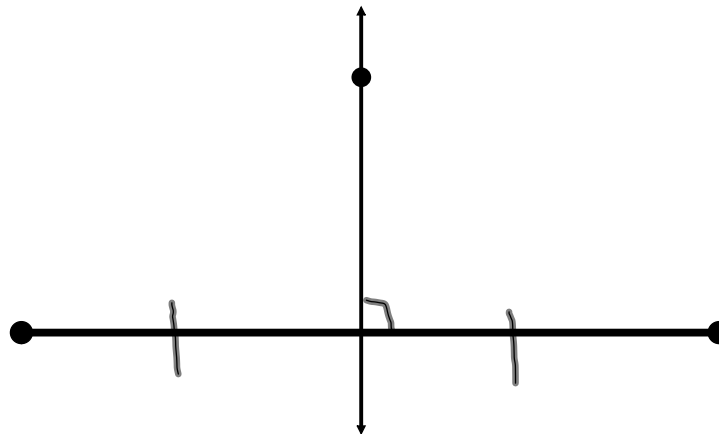


Theorem 5-2 Perpendicular Bisector Theorem

If a point is on the perpendicular bisector of a segment, then it is equidistant from both of the endpoints of the segment.

Theorem 5-3 Converse of the Perp. Bisc. Theorem

If a point is equidistant from both endpoints of a segment, then it is on the perpendicular bisector of the segment.

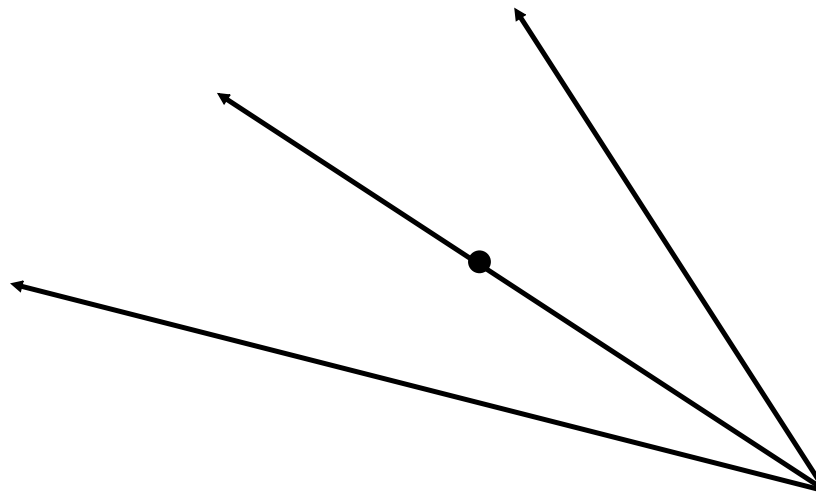


### Theorem 5-4 Angle Bisector Theorem

If a point is on the bisector of an angle, then it is equidistant from the sides of the angle.

### Theorem 5-5 Converse of the Angle Bisector Thm.

If a point in the interior of an angle is equidistant from the sides of the angle then the point is on the angle bisector.



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