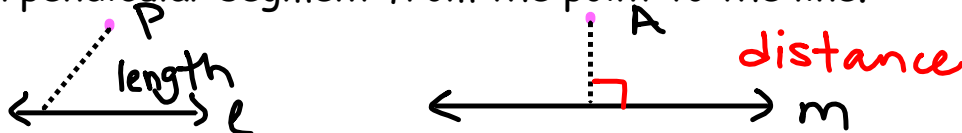


5.6 Angle Bisectors and Perpendicular Bisectors

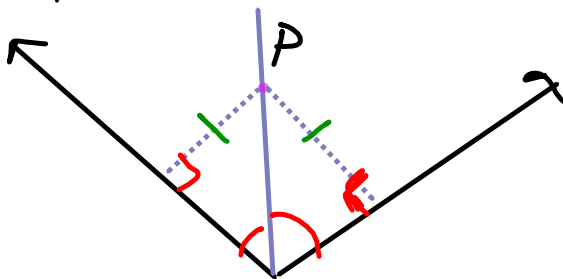
Objective: Use angle bisectors and perpendicular bisectors

The distance from a point to a line is measured by the length of the perpendicular segment from the point to the line.



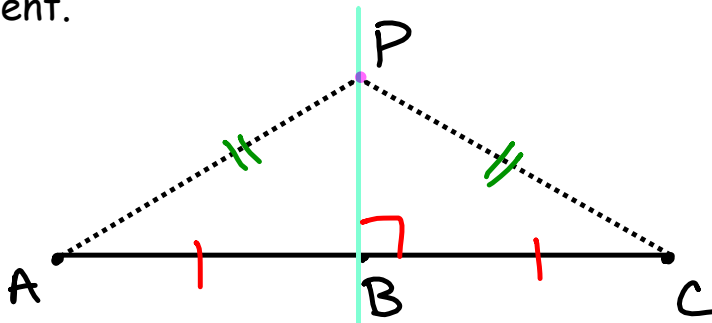
When a point is the same distance from one line as it is from another line, the point is equidistant from the two lines.

Angle Bisector Theorem: If a point is on the bisector of an angle, then it is equidistant from the two sides of the angle.



Checkpoint at the bottom of page 274. # 1 and 2 only.

Perpendicular Bisector Theorem: If a point is on the perpendicular bisector of a segment, then it is equidistant from the endpoints of the segment.



Checkpoint at the bottom of page 274. # 3