

Constructions

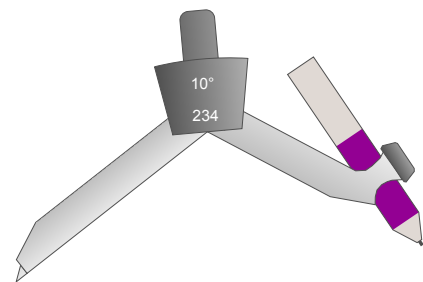
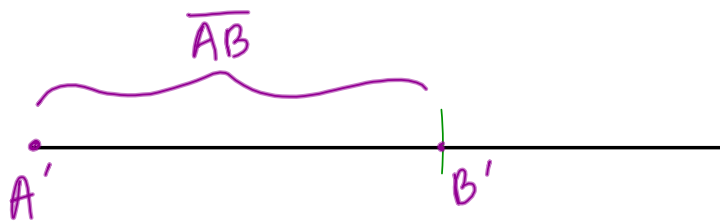
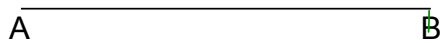
Objective: To learn how to do basic geometric constructions with a compass and straightedge.

Why: To learn HOW to perform the items we've talked about (segment bisector, angle bisector, \parallel lines, \perp lines, etc.) and WHY they work!

Obj: To learn how to do basic geometric constructions with a compass and straightedge.

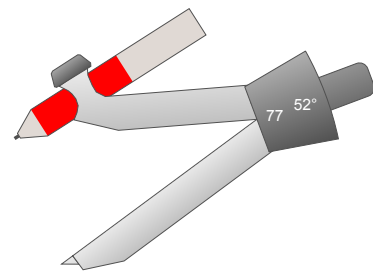
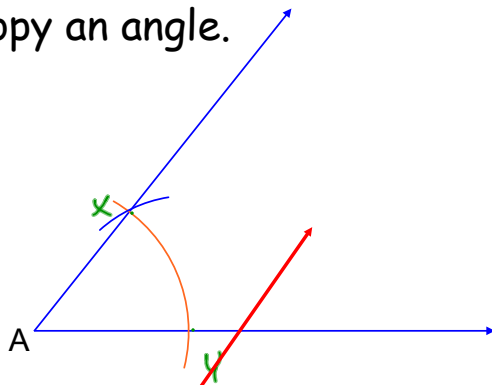
Constructions (Worksheet 1)

1. Copy a segment.

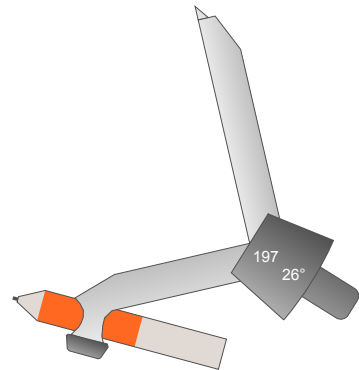
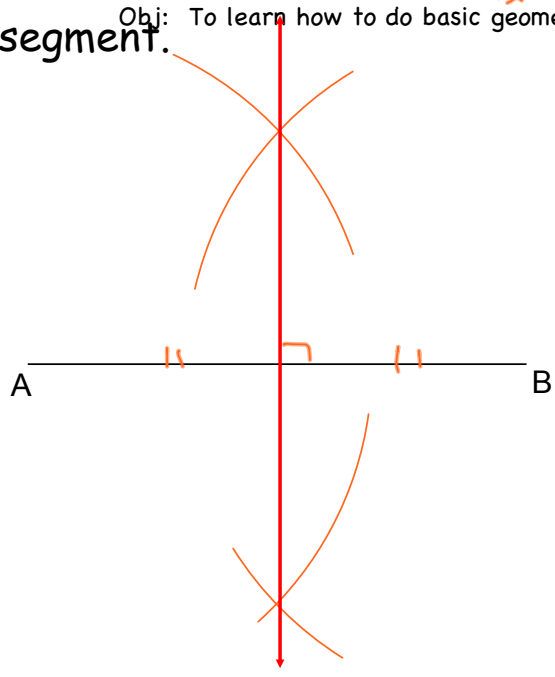


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2. Copy an angle.

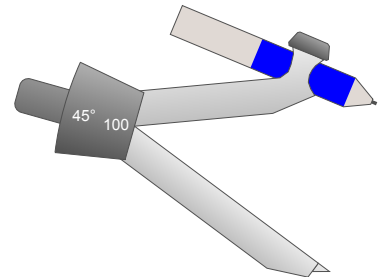
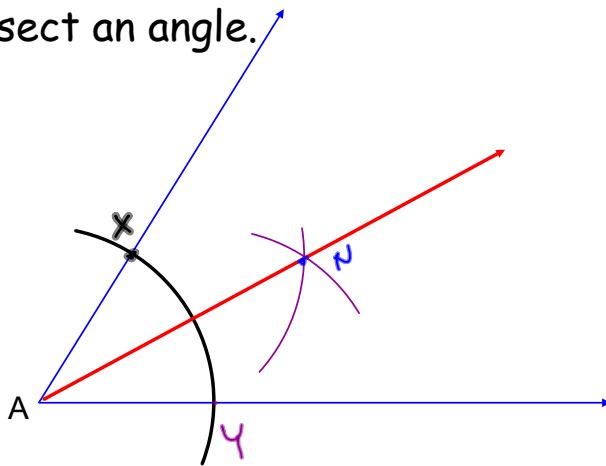


3. Bisect a segment. Obj: To learn how to do basic geometric constructions with a compass and straight



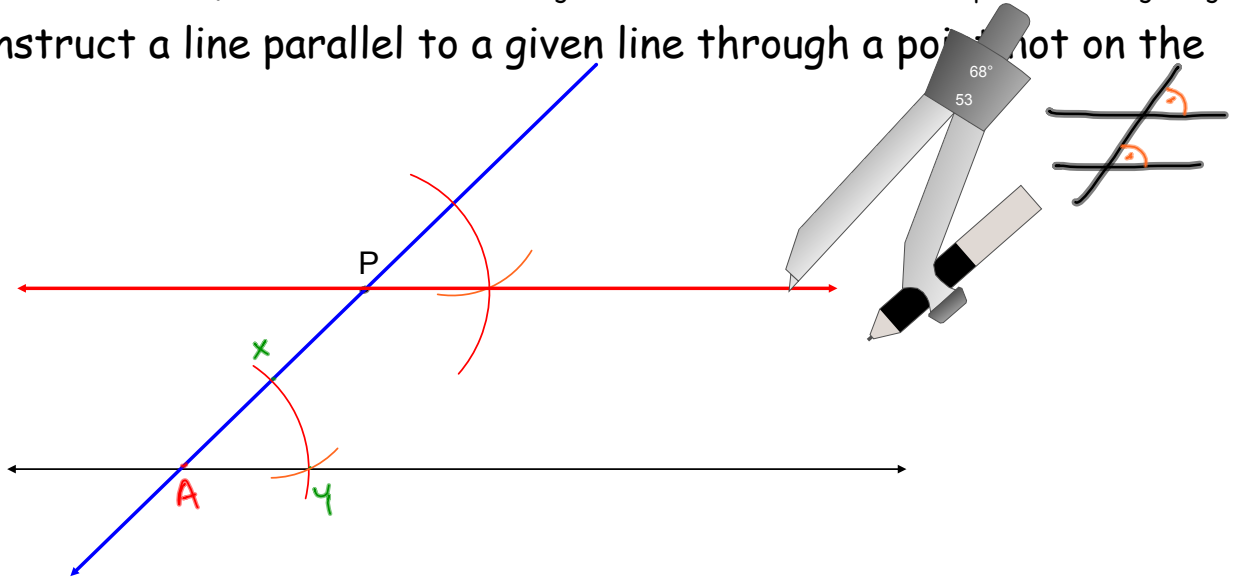
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4. Bisect an angle.



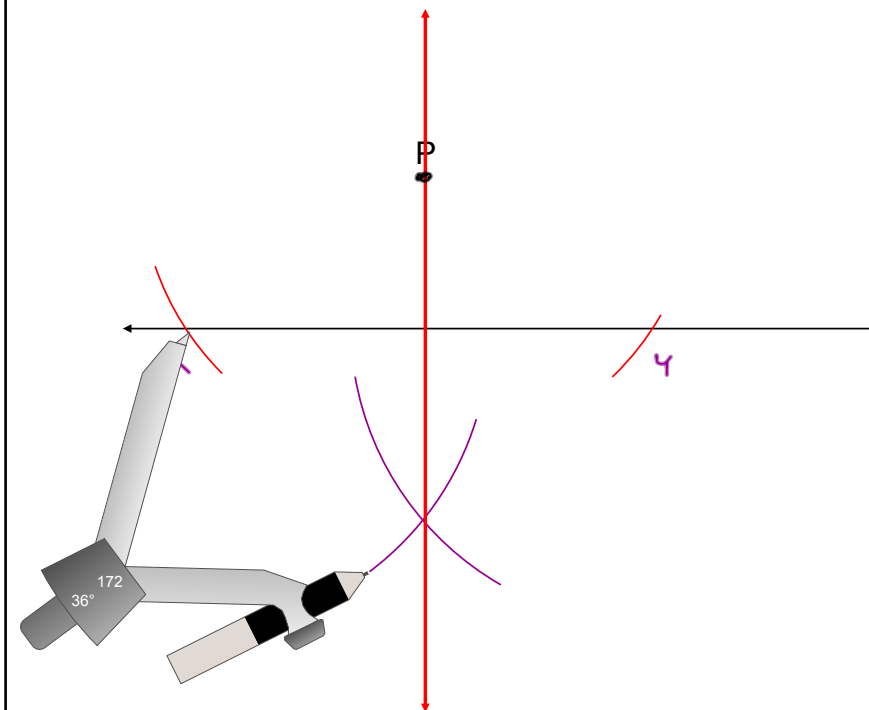
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5. Construct a line parallel to a given line through a point not on the line.



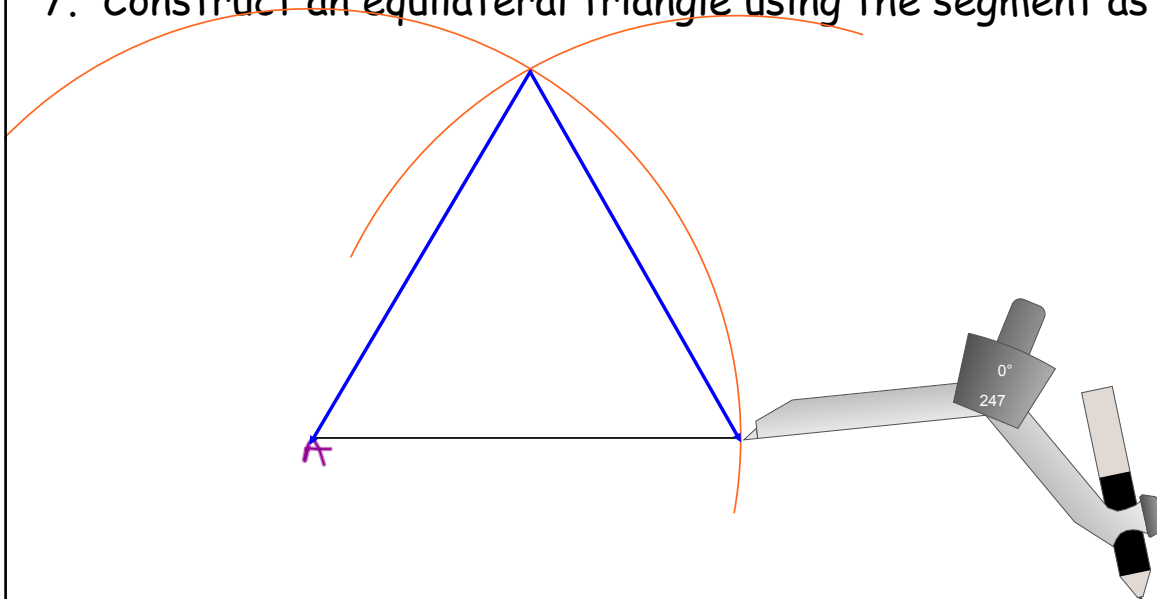
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6. Construct a line perpendicular to a line through a point not on the line.



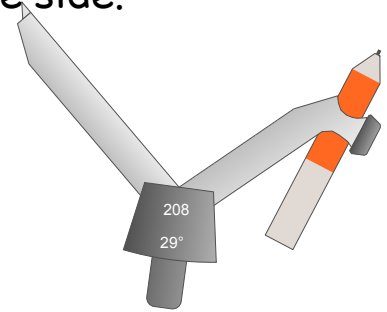
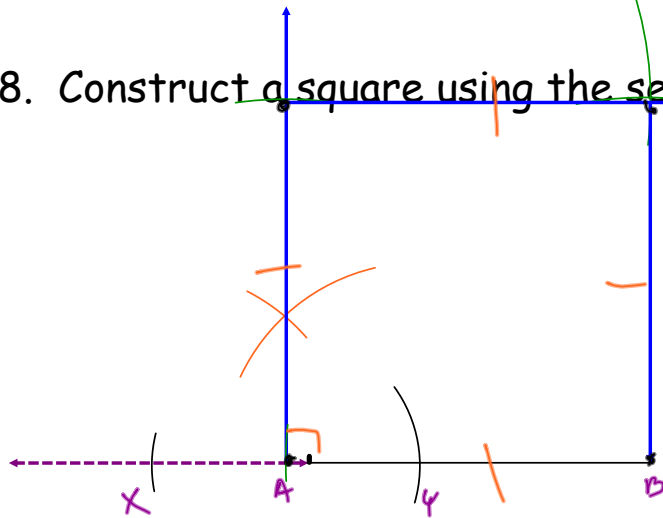
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7. Construct an equilateral triangle using the segment as one side.



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8. Construct a square using the segment as one side.



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9. Construct a regular hexagon inscribed in a circle.

$$\frac{360}{8} = 45^\circ$$

