

Notes 8.3 Geometry Constructions & Congruence

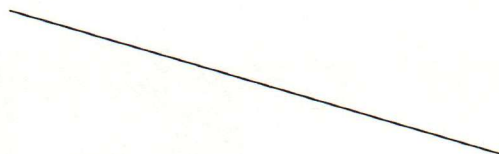
Warmup

1. Bisect each line segment.

a.



b.

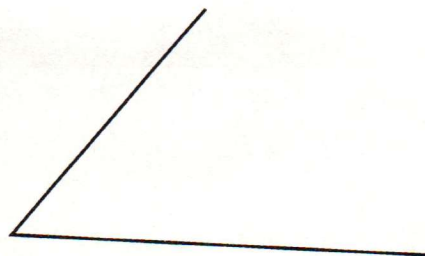


2. Bisect each angle

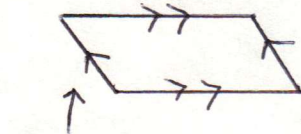
a.



b.



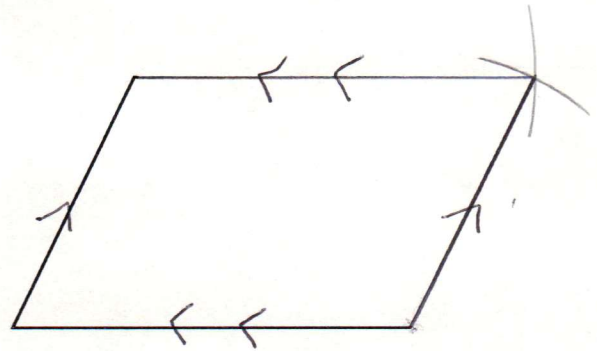
Vocabulary

| Word | Meaning/Notation | Example |
|---------------|---|---|
| Parallelogram | a quadrilateral whose opposite sides are parallel |  <p>parallel marks</p> |

Make a Parallelogram

Steps:

1. Measure the length of one side
2. Mark the length on the opposite side
3. Measure the other given side
4. Mark the length on the opposite side
5. Connect endpoints to the x
6. Make parallel marks



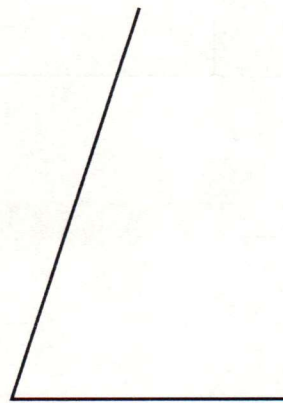
Practice:

Create parallelograms for each of the given angles.

a.



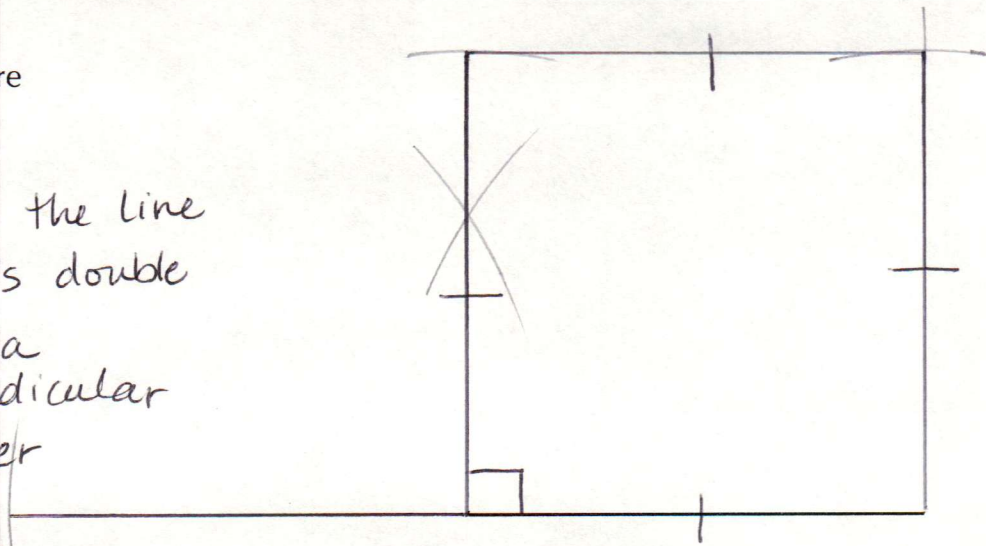
b.



Make a Square

Steps:

1. Extend the line so it is double
2. Make a perpendicular bisector
3. Mark length of side 2
4. Draw side 2 using mark and bisector x's
5. Finish constructing using Rhombus steps (8.2)



Practice:



Make a Rectangle

Steps:

1. Measure side one
2. Mark double the length of side 1
3. Construct a \perp bisector
4. Measure side 2
5. Mark the length
6. Draw side 2
7. Follow the steps for a parallelogram

Side 1:



Side 2:

