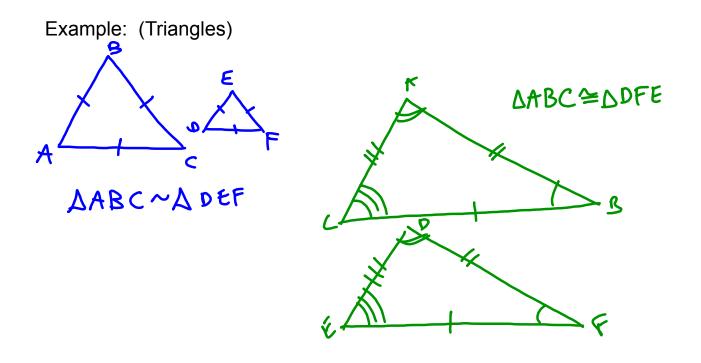
12.1-12.2 Congruence Properties and Constructions

<u>Congruent</u>-- two shapes are congruent if every corresponding measurable quantity for each of them is the same. (Notation: ≅)

<u>Similar</u>--two shapes are similar if they are the exact same shape, but they are scaled versions of each other. (Notation: ~)



Draw a segment of length 6 cm on your paper.
 Do not make it horizontal or vertical.
 (A S A)

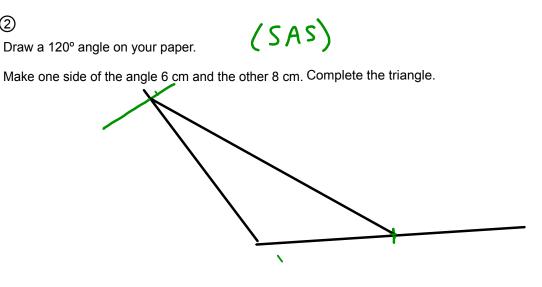
At one end, draw a 40° angle.

At the other end draw a 70° angle.

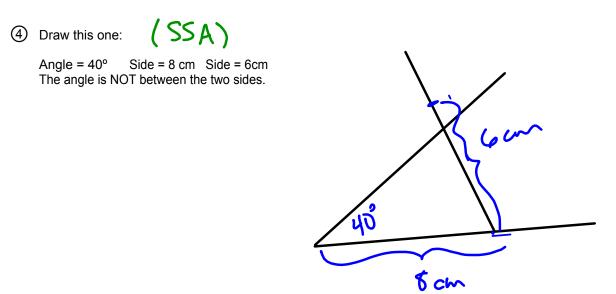
Complete the triangle. Label it with your initials. Compare it to your partners' triangles.

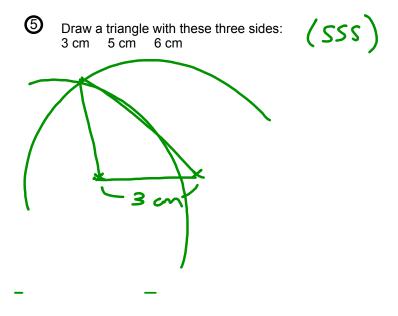
1

2

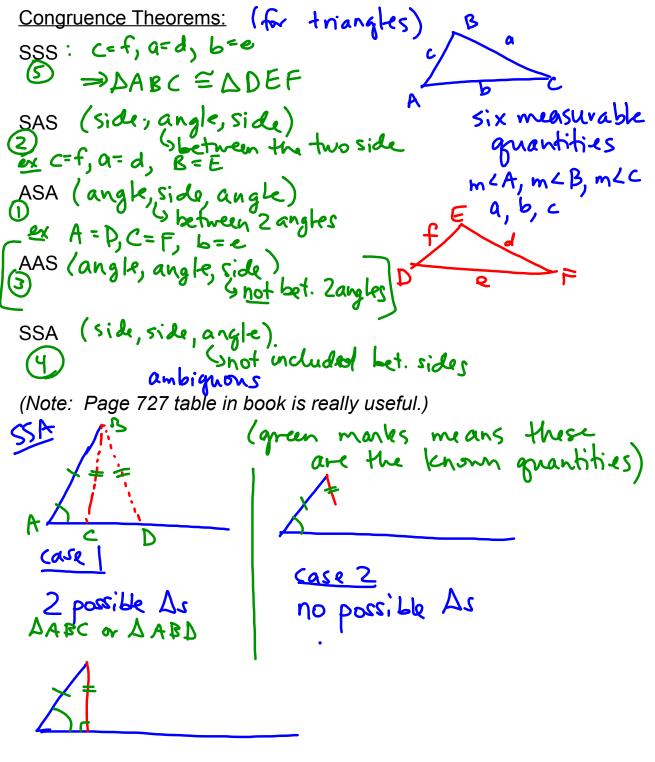


(AAS) 3 60 Draw a triangle with these parts - in order 8 Side 8 cm. Angle 50° Next angle (not on the 8cm. segment) 70° <u>8 cm 50</u>

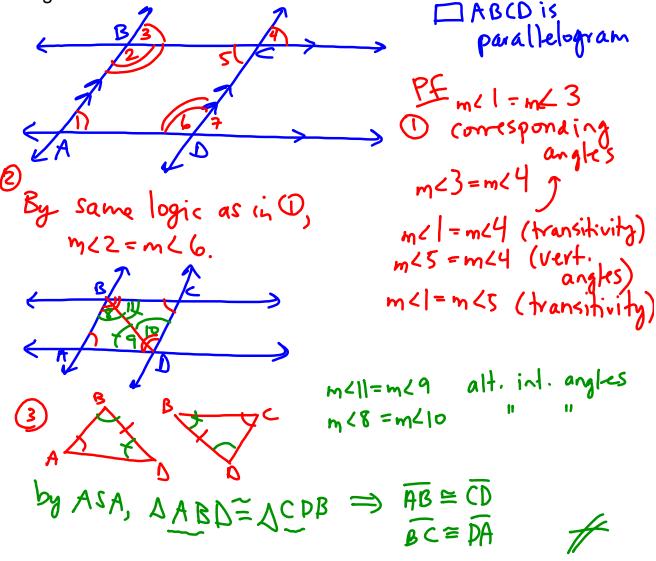


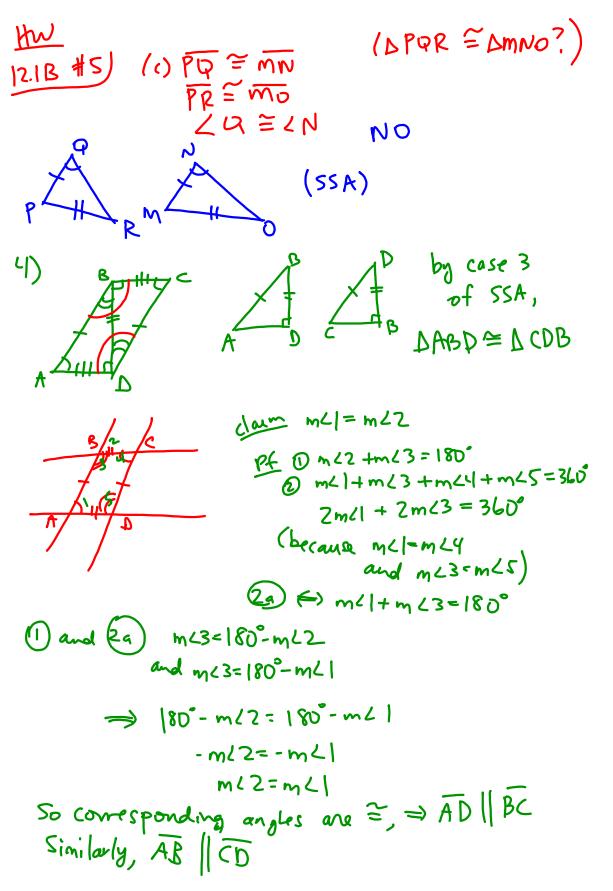


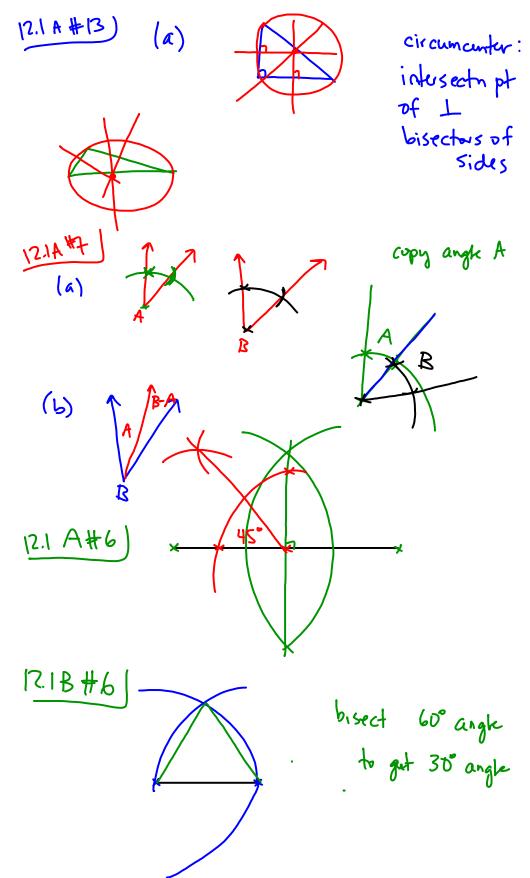
6 Draw one with these three angles: 30 50°, 30°, 100° د0ء 100°



Prove that opposite sides and angles of a parallelogram are congruent.







12.1 B
H2
3 pts equidistant from each other
(verts of equilational A)

10
 AB=BC=AC
A B=BC=CD=AD \neq AC \neq BD
 10 AB=BC=CD=AD \neq AC \neq BD
 12 B \neq BAD \cong \angle BCD?
 12 B \neq 9
 12 C B \neq 9