## 3.7-8 Types of Triangles

## 10-7-2020

## 1 Angle Side Theorem

Theorem 20 If two sides of a triangle are congruent, the angles opposite the sides are congruent. (If  $\triangle$ , then  $\triangle$ .)

Theorem 21 If two angles of a triangle are congruent, the sides opposite the angles are congruent. (If  $\triangle$ , then  $\triangle$ .)

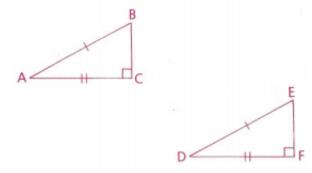
Theorem

If two sides of a triangle are not congruent, then the angles opposite them are not congruent, and the larger angle is opposite the longer side. (If △, then △.)

Theorem

If two angles of a triangle are not congruent, then the sides opposite them are not congruent, and the longer side is opposite the larger angle. (If  $\triangle$ , then  $\triangle$ .)

## 2 Hypotenuse Leg (HL)



**POS:** If a correspondence exists between 2  $\triangle$ s where the hyp  $\cong$  and one leg of each is  $\cong$  ->  $\triangle$   $\cong$