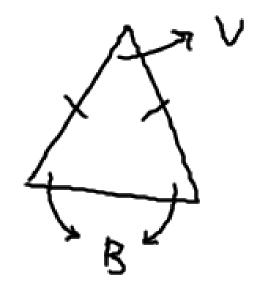
## 4 - 6 Isosceles Triangles

\*\*

vertex angle: ungle formed by the 2 = sides

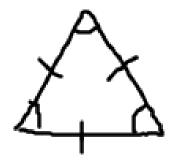
base angles: the other two



# Theorem 4.9 (Isosceles Triangle Theorem)

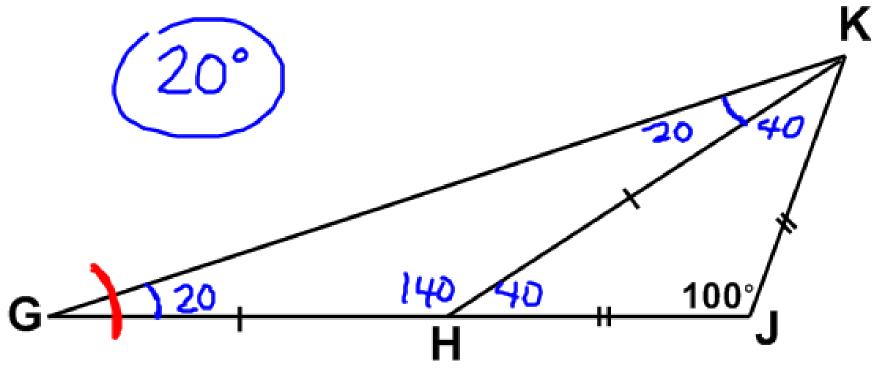
If two sides of a △ are ≅, then the ∠s opposite those sides are ≅.





Ex: If  $\overline{GH} \cong \overline{HK}$ ,  $\overline{HJ} \cong \overline{JK}$ , and  $m \angle GJK = 100^{\circ}$ , what is the measure of  $\angle HGK$ ?



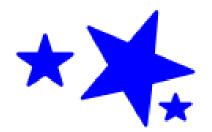




#### Theorem 4.10

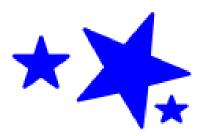
converse of Theorem 49

### **Corollaries**



4.3 equilateral + > equiangular

4.4 equilateral, each L=60°



#### Homework:

4 - 6 WS