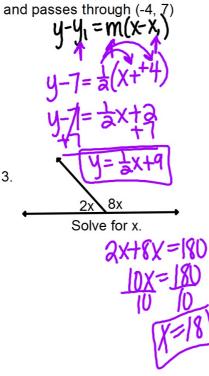
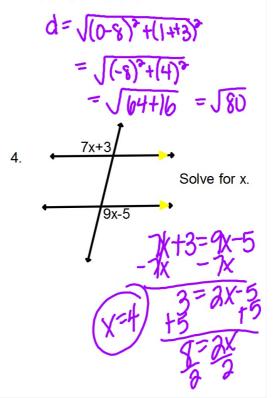
## <mark>Spiral Review:</mark>

1. Write the equation of the line if m=1/2, and passes through (-4 7)



2. Find the distance between (8, -3) and (0, 1).



# Review 4.1-4.3

- 1. Write the three ways to name a triangle by sides:
- 1)
- 2)
- 3)
- 3. 4 4 30 4 2 2

Find the numbered angles.

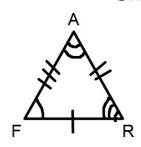
- 2. Write the four ways to name a triangle by angles.
- 1)
- 2)
- 3) 4)
- Write all the pairs of congruent corresponding parts for ΔBIG≅ΔDOG.

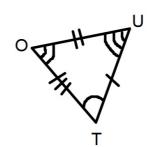
西学DG LG学LG BG学DG LG学LG AB学LD LG学LG AB学LD LG学LG

## p.264 4.4 Proving Triangles Conquent by SSS and SAS

In section 4.3, you proved that two triangles were congruent by showing that all six pairs of corresponding parts were congruent.

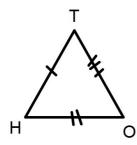
Show me what that mean!

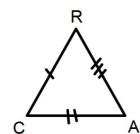




\*\*It is possible to prove two triangles congruent with fewer pairs!\*\*

Side-Side (SSS) Congruence:

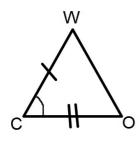


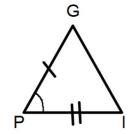


- If: 1) HT≌ CR
- 2) HO = CA
- 3) OT = AR

Then: AHOT & MAR by SS

Side-Angle-Side (SAS) Congruence:



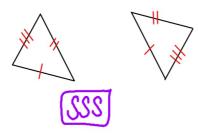


- If: WC & GP
- 2) LC≌ LP

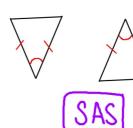
Then: △COW ≅ △PIG by SAS

**Example 1:** Determine which postulate can be used to prove that the triangles are congruent. If it is not possible, write not possible.

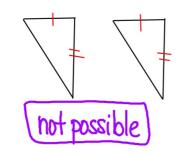
a.)



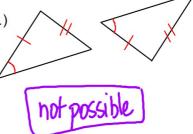
b.)



c.)

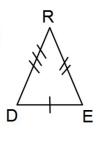


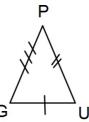
d.)



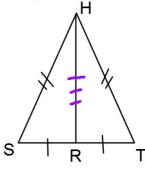
### **Example 2:** Prove the following triangles are congruent.

a.)

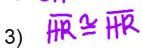




b.)

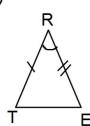


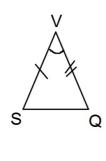
- 1) DE ¥60
- 2) ER & UP
- 3) DR ¥ GP
- Δ<u>VER</u> ≅ Δ<u>GVP</u> by <u>SSS</u>



ΔSRH ATRH by SSS

c.)

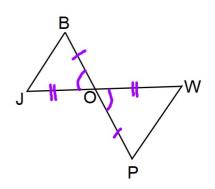




- 1) 〒≌ 5√
- 2) LRYLV
- 3) RE \subseteq VQ

$$\Delta \underline{\mathsf{TRE}} \cong \Delta \underline{\mathsf{SVQ}}$$
 by  $\underline{\mathsf{SAS}}$ 

d.)

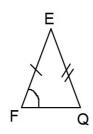


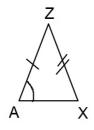
O is the midpoint of  $\overline{JW}$  and  $\overline{BP}$ .

- 1) OB YOP
- 2) Joº₩0
- 3) LBOJ = LPOW

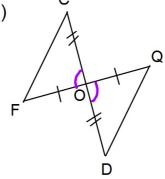
$$\Delta \overline{\text{J08}} \cong \Delta \overline{\text{W0}} \text{ by } \underline{\text{SAS}}$$

#### e.)





- 2) LF = 1A
- 3) QE = XZ



- 1) FO = QO
- 2) 00 2 50
- 3) LCOF坐LDOQ

$$\triangle COF \cong \triangle DOD$$
 by  $SAS$ 

Turn - in: Practice 4.4

Homework: worksheet 4.4