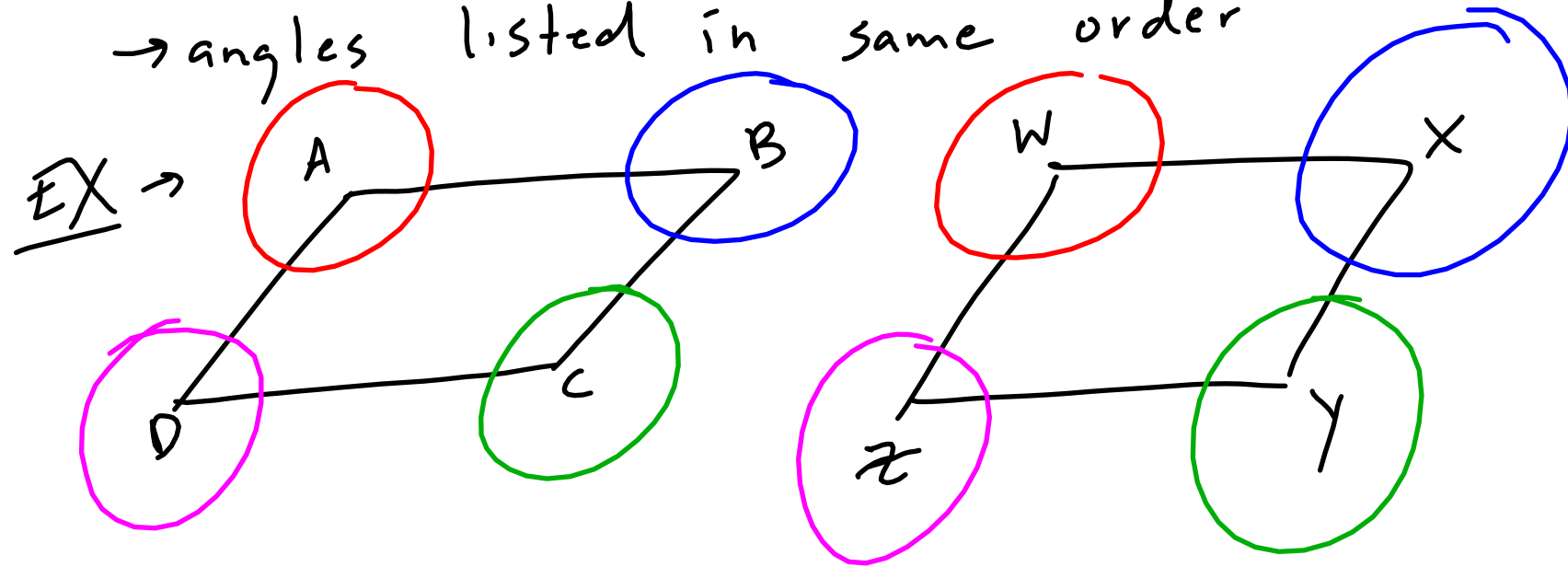


Congruent Figures

- same size + shape

- if 2 figures are congruent, corresponding parts are congruent

→ angles listed in same order



$$ABCD \cong WXYZ$$

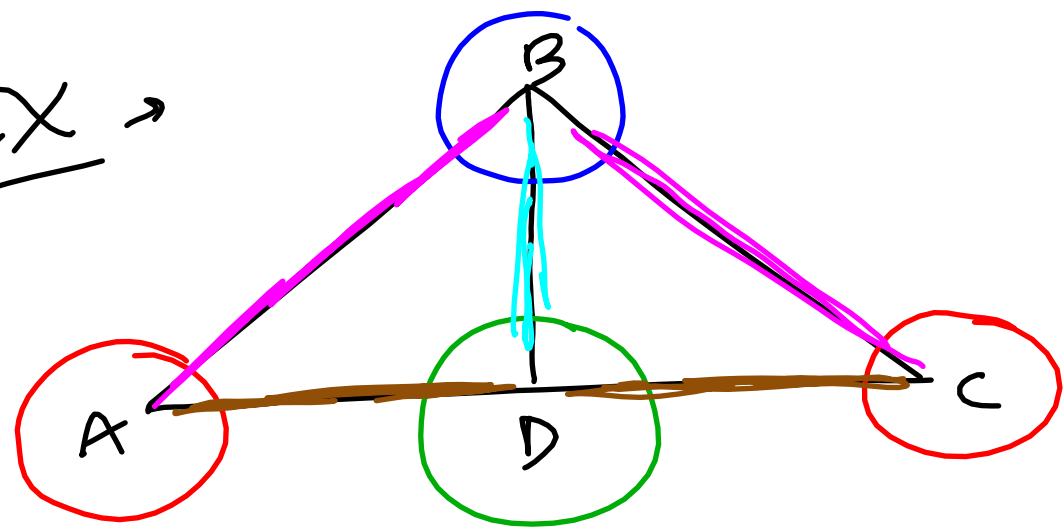
Corresponding Sides

$$\overline{AB} \cong \overline{WX}$$
$$\overline{BC} \cong \overline{XY}$$
$$\overline{CD} \cong \overline{YZ}$$
$$\overline{DA} \cong \overline{ZW}$$

Corresponding Angles

$$\angle A \cong \angle W$$
$$\angle B \cong \angle X$$
$$\angle C \cong \angle Y$$
$$\angle D \cong \angle Z$$

EX →



Corr. Sides

$$\overline{AB} \cong \overline{CB}$$

$$\overline{AD} \cong \overline{CD}$$

$$\overline{BD} \cong \overline{BD}$$

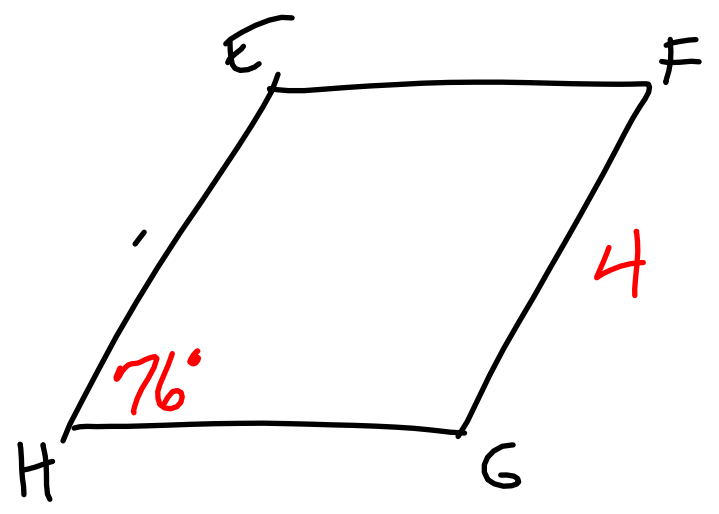
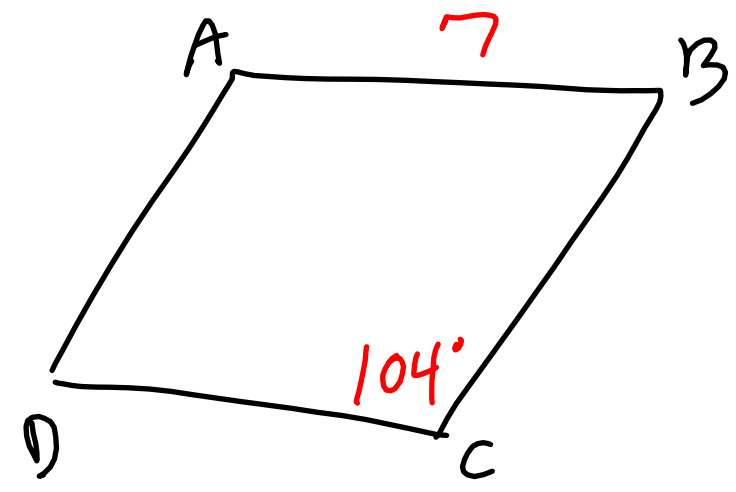
Corr. \angle 's

$$\angle A \cong \angle C$$

$$\angle ABD \cong \angle CBD$$

$$\angle ADB \cong \angle CDB$$

EX →



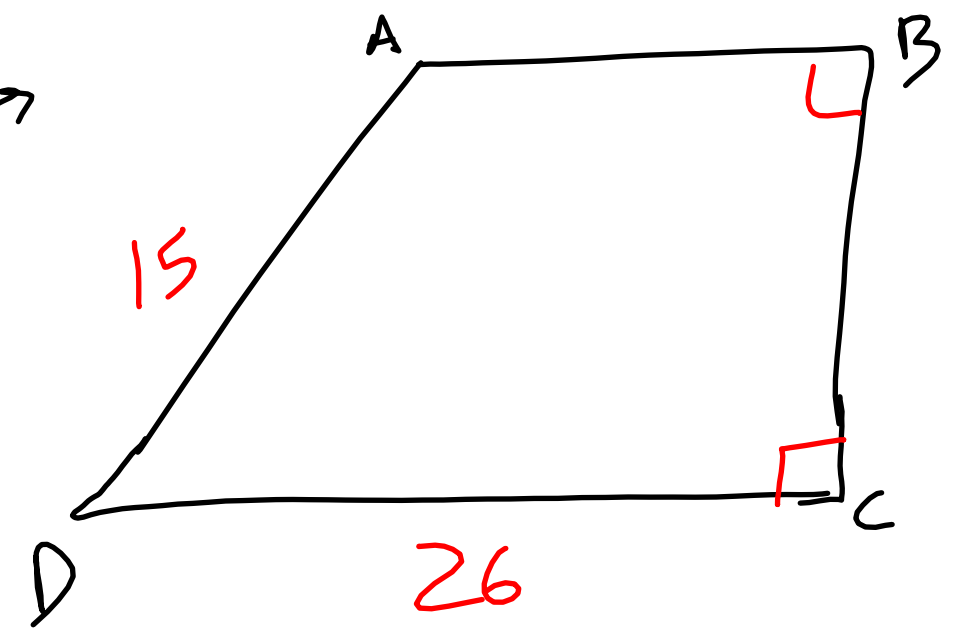
$$EF = 7$$

$$BC = 4$$

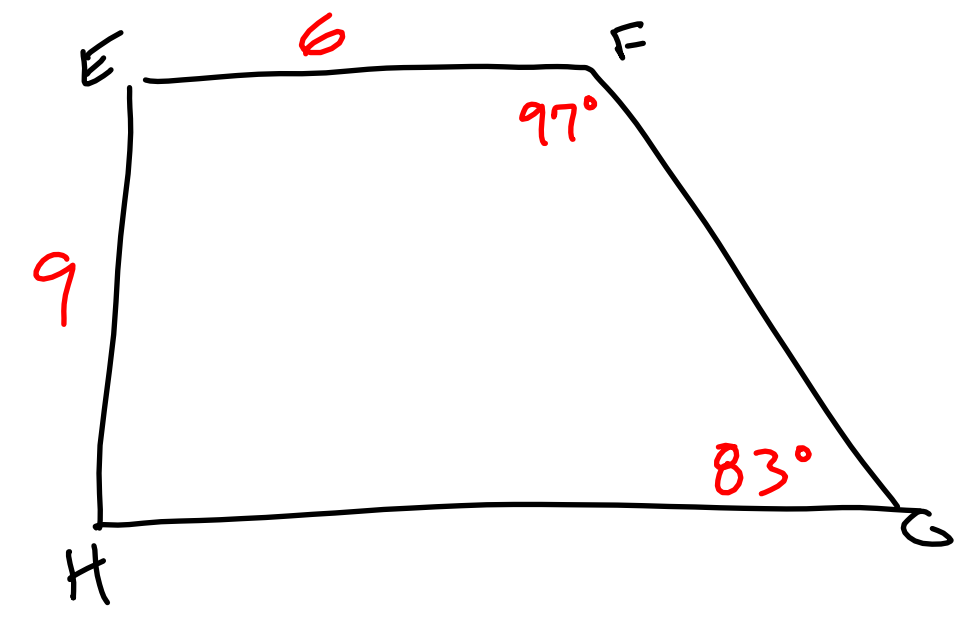
$$\angle D = 76^\circ$$

$$\angle G = 104^\circ$$

EX →



$AB = 6$
 $BC = 9$
 $\angle A = 97^\circ$
 $\angle D = 83^\circ$



$\angle E = 90^\circ$
 $\angle H = 90^\circ$
 $FG = 15$
 $HG = 26$

HW: p. 222 → 8-29, 40, 41