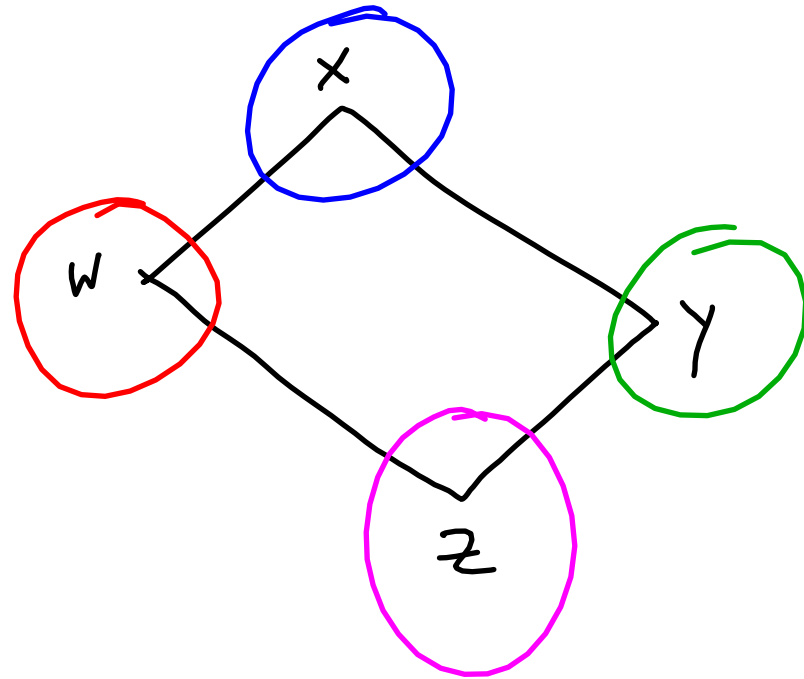
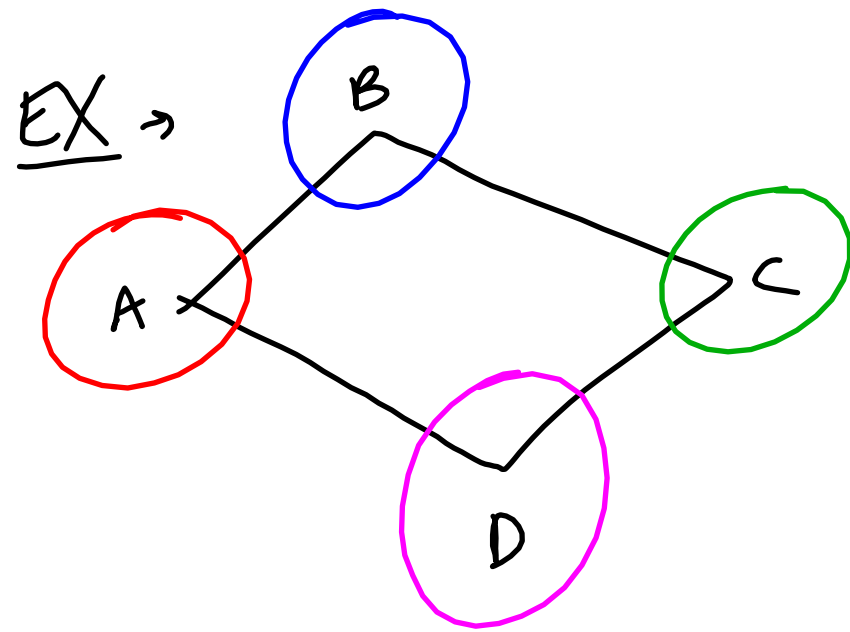


Congruent Figures

- same size + shape

- if 2 figures are \cong , corresponding parts are \cong

→ corresponding \angle 's are listed in same order



$$ABCD \cong WXYZ$$

Corresponding sides →

$$\overline{AB} \cong \overline{WX}$$

$$\overline{CD} \cong \overline{YZ}$$

$$\overline{BC} \cong \overline{XY}$$

$$\overline{DA} \cong \overline{ZW}$$

Corresponding

\angle 's →

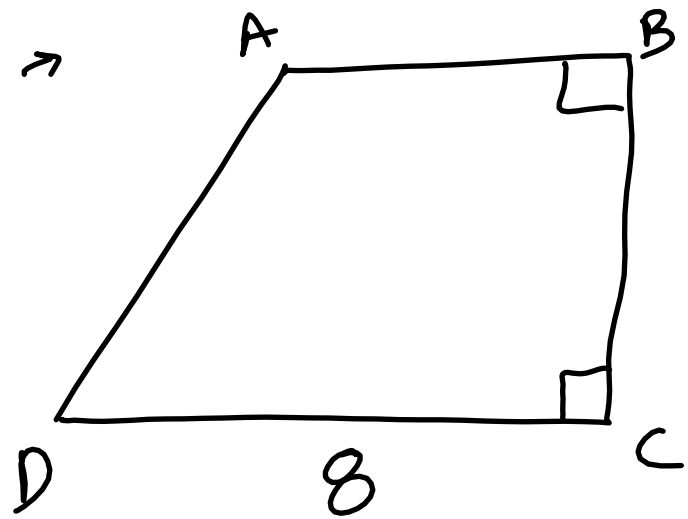
$$\angle A \cong \angle W$$

$$\angle C \cong \angle Y$$

$$\angle B \cong \angle X$$

$$\angle D \cong \angle Z$$

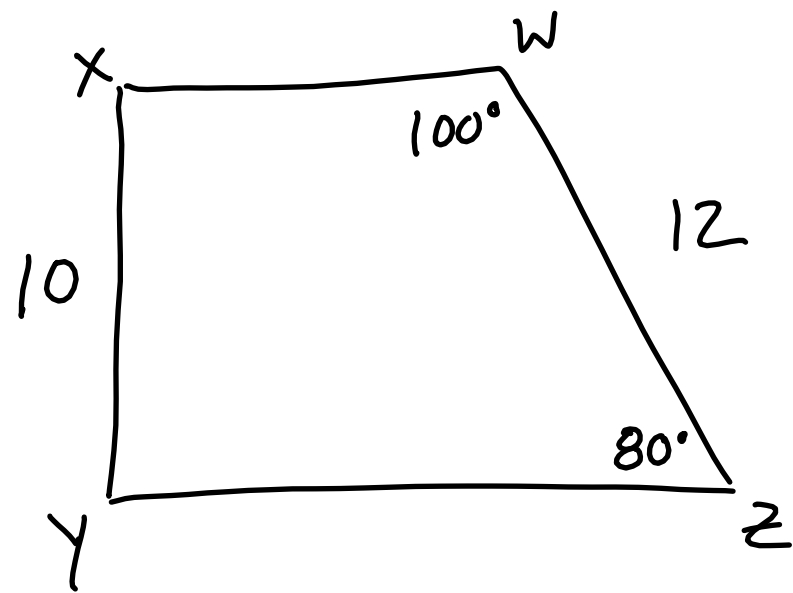
EX →



$\angle X = 90^\circ$

$\angle Y = 90^\circ$

$AD = 12$



$YZ = 8$

$BC = 10$

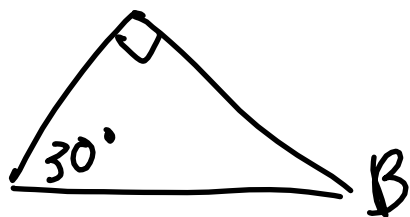
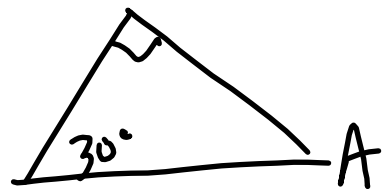
$\angle D = 80^\circ$

$\angle A = 100^\circ$

- 3rd \angle 's Thm. \Rightarrow If 2 \angle 's in triangle are congruent to 2 \angle 's in another triangle,
 then 3rd \angle 's are congruent

$A + B ? \Rightarrow \angle A \cong \angle B$

EX →



HW: p. 222 → 8-29, 40, 41