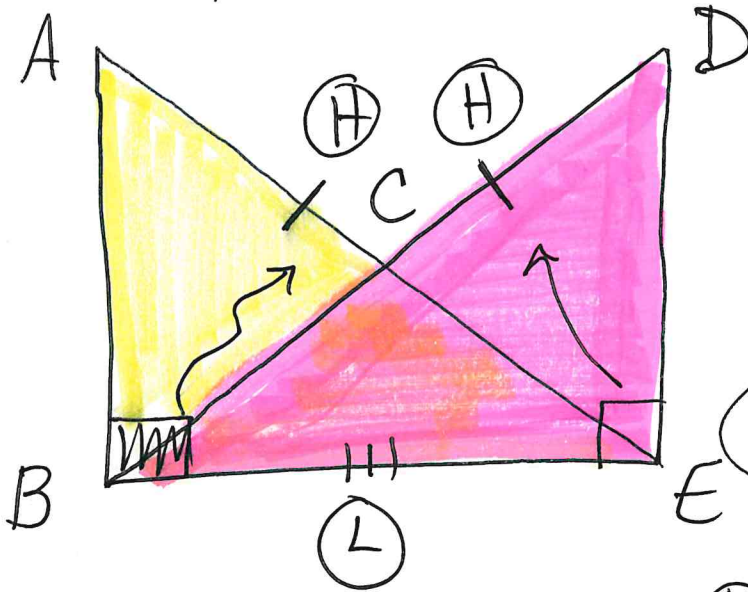


10/20

Lesson 26: Triangle

Proofs

ie 1



Given \rightarrow not bisector

$$\overline{AB} \perp \overline{BE}$$

$$\overline{BE} \perp \overline{DE}$$

prove \rightarrow $\triangle BEA \cong \triangle BED$

Statements

Reasons

(1) See Above

(1) Given

(2) $\overline{AE} \cong \overline{BD}$

(2) corr. sides (\cong)

(3) $\overline{BE} \cong \overline{BE}$

(3) Reflexive

(4) $\angle ABE \cong \angle DEB$

(4) Right \angle

(5) $\triangle BEA \cong \triangle BED$

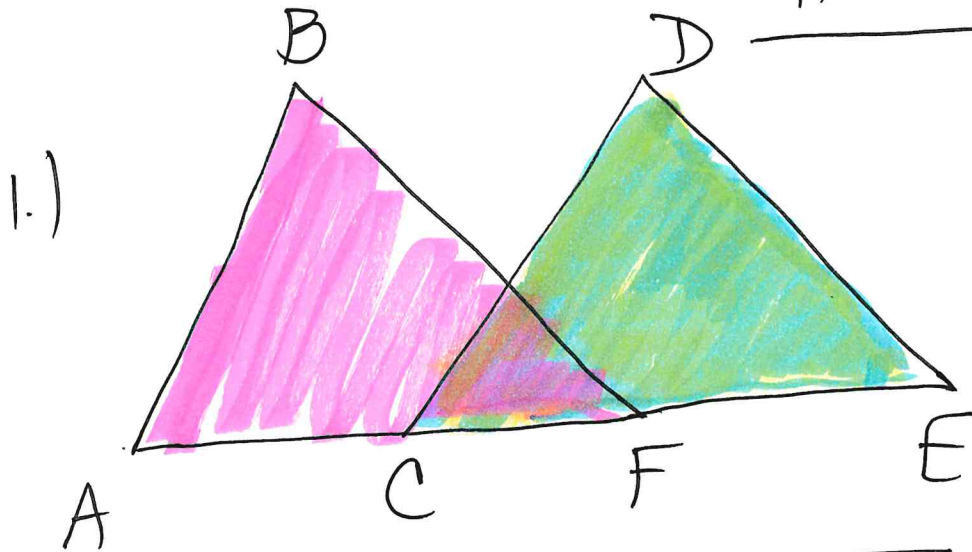
(5) HL 90°

(1)

Lesson 26

Name: _____

HR: _____



Given $\Delta AB \parallel CD$; $\overline{AF} \cong \overline{CE}$; $\angle B \cong \angle D$

prove $\Delta ABF \cong \Delta CDE$

Statements

Reasons

(1) See Above

(1) Given

(2)

(2)

(3)

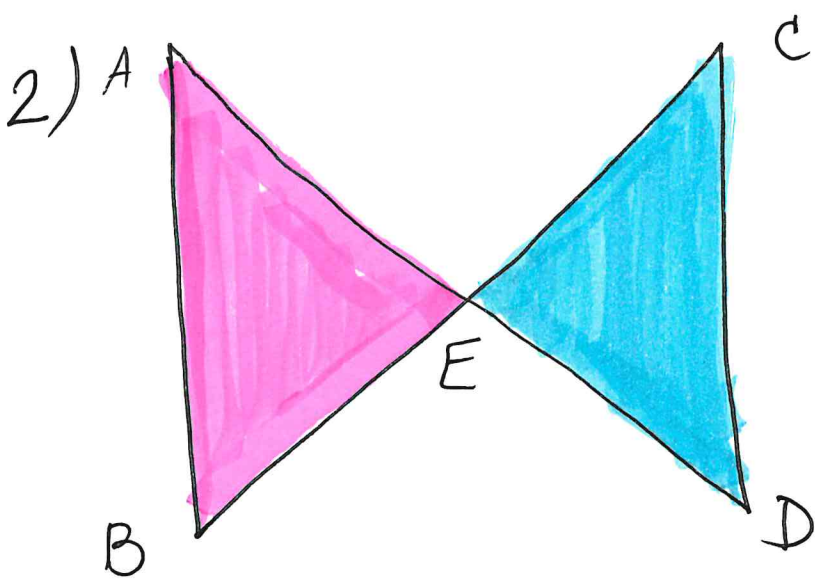
(3)

(4)

(4)

(5) $\Delta ABF \cong \Delta CDE$

(5)



Given $\triangleright \overline{AB} \parallel \overline{CD}$
 $\overline{AB} \cong \overline{CD}$

Prove $\triangleright \triangle ABE \cong \triangle DCE$

Statements

Reasons

①

①

②

②

③

③

④

④

⑤

⑤