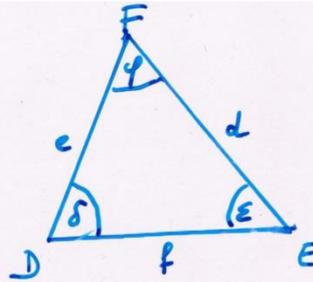
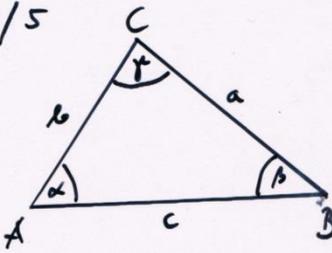
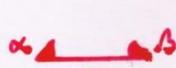


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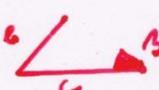


a, $a = 4\text{cm}, b = 5\text{cm}, c = 7\text{cm}$ $d = 7\text{cm}, e = 5\text{cm}, f = 4\text{cm}$
 nach SSS-Satz sind
 $\triangle ABC$ und $\triangle FED$ kongruent
 $\triangle ABC \cong \triangle FED$

b, $a = 4\text{cm}, c = 7\text{cm}, \alpha = 40^\circ$ $e = 4\text{cm}, f = 7\text{cm}, \epsilon = 40^\circ$
 SSW 
 $\triangle ABC \not\cong \triangle FED$ da die \triangle nicht einmal
 eindeutig konstruierbar sind.

d, $c = 4\text{cm}, \alpha = 40^\circ, \beta = 65^\circ$ $f = 4\text{cm}, \delta = 40^\circ, \varphi = 75^\circ, \epsilon = 65^\circ$
 und $\gamma = 75^\circ$
 nach WSW-Satz
 $\triangle ABC \cong \triangle FED$ 

c, $\alpha = 35^\circ; \beta = 45^\circ; \gamma = 100^\circ$ $\delta = 45^\circ; \epsilon = 100^\circ; \varphi = 35^\circ$
 $\triangle ABC \not\cong \triangle FED$ denn beide Dreiecke sind gar nicht
 eindeutig konstruierbar.

e, $b = 7\text{cm}, c = 5\text{cm}, \beta = 110^\circ$ $d = 5\text{cm}, e = 7\text{cm}, \epsilon = 110^\circ$
 nach SSW-Satz 
 fällt $\triangle CAB \cong \triangle DFE$

f, $a = 6\text{cm}, \alpha = 40^\circ, \gamma = 70^\circ, \beta = 70^\circ$ $f = 6\text{cm}, \delta = 40^\circ, \varphi = 70^\circ, \epsilon = 70^\circ$
 $\gamma \neq \delta$ 
 $\triangle ABC \not\cong \triangle FED$