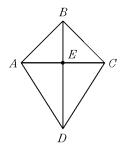
## 2017-12-07 Proofs Practice

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_

1. Given: quadrilateral ABCD,  $\overline{BD}$  intersects  $\overline{AC}$  at E,

and  $\overline{BD}$  bisects  $\angle ABC$  and  $\angle ADC$ .

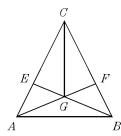
Prove:  $\overline{AE} \cong \overline{EC}$ 



2. Given:  $\overline{AEC}$ ,  $\overline{BFC}$ ,  $\overline{EGB}$ ,  $\overline{FGA}$ ,

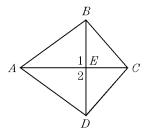
 $\overline{FG} \cong \overline{EG}$ , and  $\angle EGC \cong \angle FGC$ .

Prove:  $\overline{AC} \cong \overline{BC}$ 



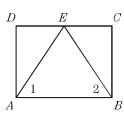
Quadrilateral ABCD,  $\overline{AEC}$ ,  $\overline{BED}$ ,  $\overline{AB} \cong \overline{AD}$ , and  $\overline{BC} \cong \overline{DC}$ . 3. Given:

 $\angle 1\cong \angle 2$ Prove:



4. Given: rectangle *ABCD* with *E*, the midpoint of  $\overline{DC}$ .

Prove:  $\angle 1 \cong \angle 2$ 



## Problem-Attic format version 4.4.311

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2017-12-07 Proofs Practice 12/7/2017

1.

Answer: [proof]

2.

Answer: [proof]

3.

Answer: [proof]

4.

Answer: [proof]