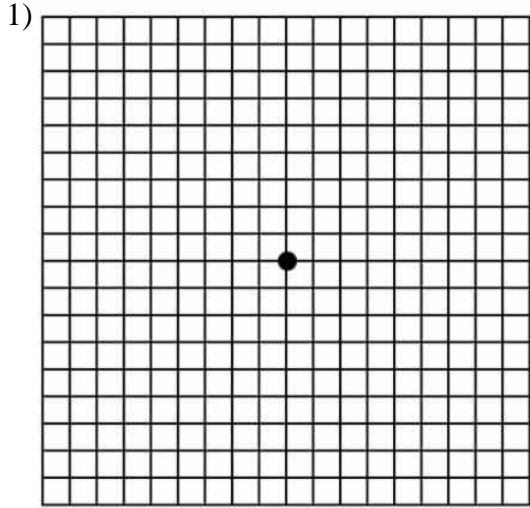


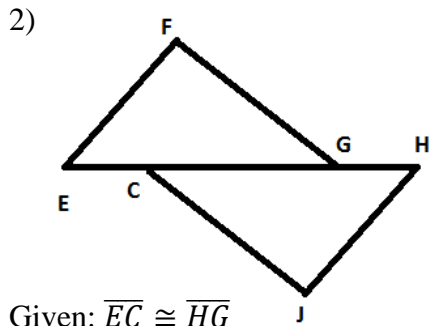
Name: _____
 Date: _____
 Class: _____

Geometry
 Unit 8
 HW 8-3

Using the given information and the diagram write a proof that shows the “Prove” statement is true.



If a quadrilateral has points (1, 2), (4, 8), (6, 3), and (3, -3) prove it is parallelogram but not a rhombus.

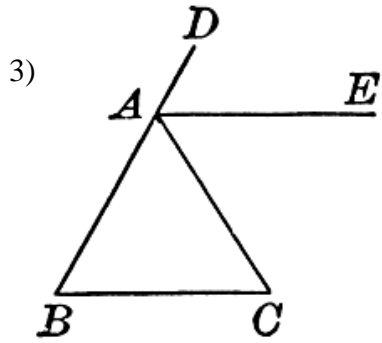


Given: $\overline{EC} \cong \overline{HG}$

$\overline{FG} \parallel \overline{CJ}$

$\overline{EF} \parallel \overline{JH}$

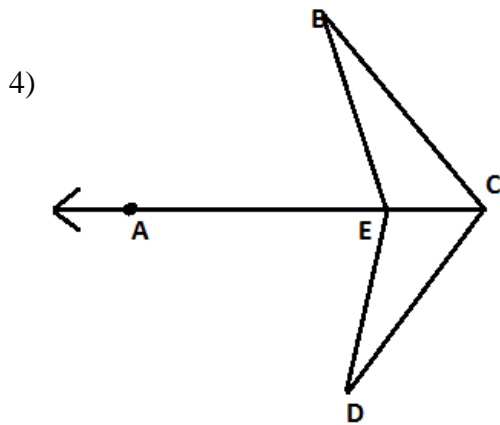
Prove: $\overline{EF} \cong \overline{JH}$



Given: $\overline{AE} \parallel \overline{BC}$

\overline{AE} bisects $\angle DAC$

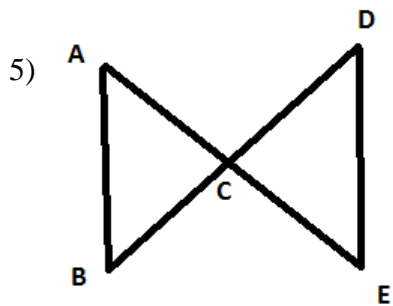
Prove: $\triangle ABC$ is isos with $\angle A$ as vertex



Given: \overline{CA} bisects $\angle BCD$

$\overline{BC} \cong \overline{CD}$

Prove: $\triangle BCE \cong \triangle DCE$



Given: \overline{AE} bisects \overline{BD}

\overline{BD} bisects \overline{AE}

Prove: $\overline{AB} \parallel \overline{DE}$