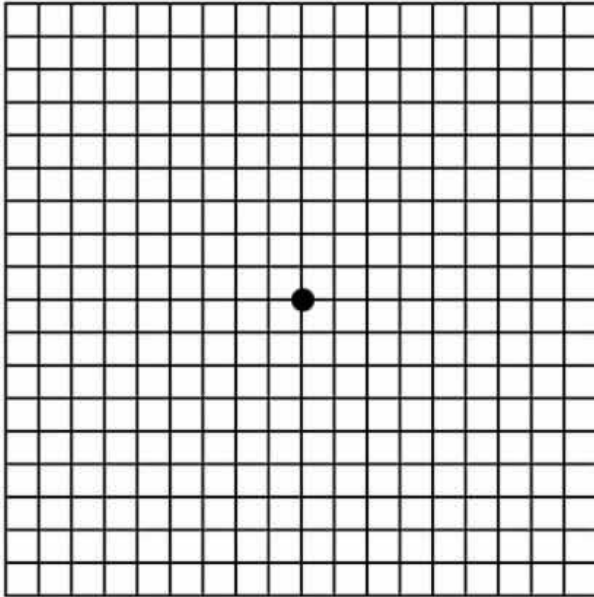


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Class: _____

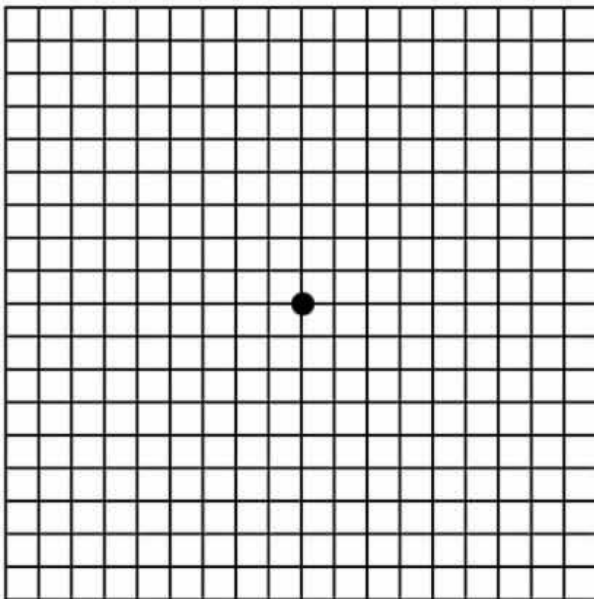
Geometry
Unit 8
HW 8-8

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

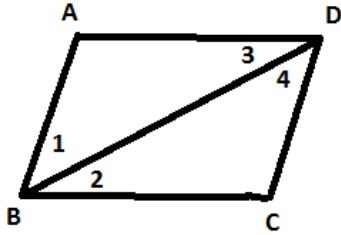
1) Is ABCD a \square , a rhombus, or both if A(-1, -2), B(2, 2), C(6, 3), and D(3, -1)



2) is LMNO an isosceles trapezoid if L(-6, -2), M(-3, 3), N(0, 4), and O(3,1)



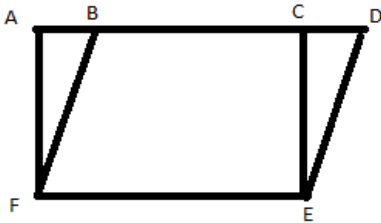
3)



Given: \overline{BD} bisects $\angle ABC$
 \overline{BD} bisects $\angle ADC$
 $\angle ABC \cong \angle ADC$

Prove: ABCD is a \square

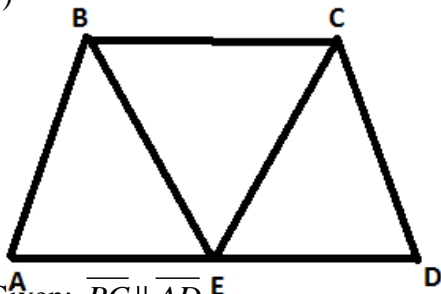
4)



Given: $BDEF$ is a parallelogram
 $\overline{FA} \perp \overline{AD}$
 $\overline{CE} \perp \overline{AD}$

Prove: ACEF is a parallelogram

5)



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

$\triangle EBC$ is isos with $\angle E$ as vertex

E is the midpoint of \overline{AD}

Prove: ABCD is an isos trapezoid