Name _____

Due Date _____

Block _____

Geometry Cumulative Review #3

(1) Given: $\overline{AB} \cong \overline{CD}$

Prove: $CD + EF = AB + EF$

(2)

Given: $AB = 8$

$AC = 12$

Prove: $BC = 4$

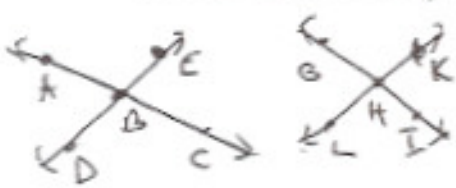
(3)

Given: $m\angle CBD = 20°$

$m\angle ABC = 70°$

Prove: $\angle ABD$ is a right $\angle$

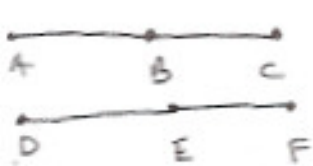
(4)



Given: $\angle EBC \cong \angle GHL$

Prove: $\angle ABD \cong \angle KHI$

(5)



Given: B is midpoint of $\overline{AC}$

E is midpoint of $\overline{DF}$, $BC = DE$

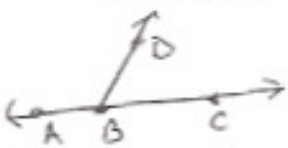
Prove: $\overline{AC} \cong \overline{DF}$

(6)

Given: B is midpoint of $\overline{AC}$

Prove: $AB = \frac{1}{2} AC$

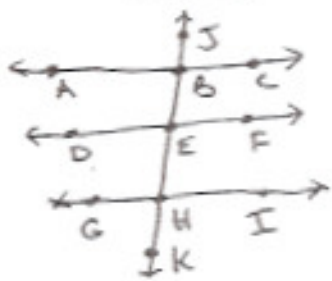
(7)



Given: $m\angle ABD = 130°$

Prove: $m\angle DBC = 50°$

(8)



Given: $\overline{AC} \parallel \overline{DF}$

$\overline{DF} \parallel \overline{GI}$

Prove: $\overline{AC} \parallel \overline{GI}$

(9)

Given: $\overline{AC}$ is $\perp$ bisector of $\overline{BD}$

Prove: $\overline{AB} \cong \overline{AD}$

(10)

Given: $m\angle BAC = 130°$

$m\angle ABC = 30°$

Prove: $m\angle ACB = 20°$