Name _____

Due Date _____

Block _____

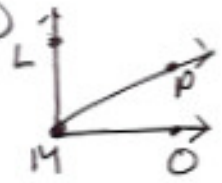
Geometry Cumulative Review #2

★ ① Given: $m\angle ABC = m\angle DEF$

$m\angle GHI = m\angle DEF$

Prove: $m\angle ABC = m\angle GHI$

★★ ②



Given: $m\angle PMO = 43°$

$m\angle LMP = 47°$

Prove: $\triangle LMO$ is a rt. $\triangle$

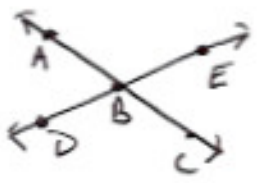
★★ ③

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

$AB = 8$

Prove: $AC = 16$

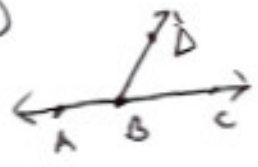
★★ ④



Given: $m\angle ABD = 25°$

Prove: $m\angle EBC = 25°$

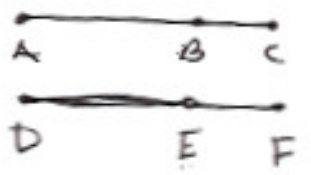
★★ ⑤



Given: $m\angle ABD = 130°$

Prove: $m\angle DBC = 50°$

★★★ ⑥

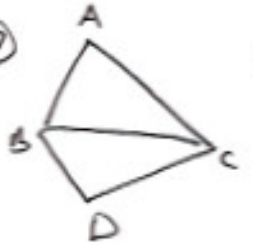


Given: $AB = DE$

$BC = EF$

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

★★★ ⑦

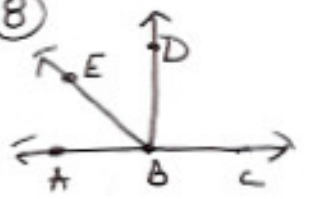


Given: $\overline{BC}$ bisects $\angle ABD$

$\overline{BC}$ bisects $\angle ACD$

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

★★★ ⑧

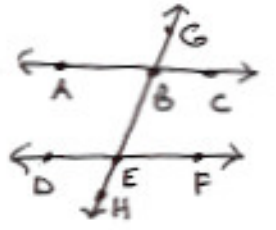


Given: $\overline{BD} \perp \overline{AC}$

$m\angle DBE = 45°$

Prove: $m\angle ABE = 45°$

★★ ⑨

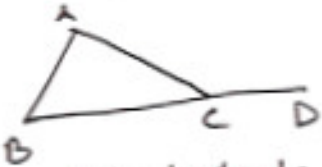


Given: $m\angle ABE = 80°$

$m\angle DEH = 80°$

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

★★ ⑩



Hint: Triangle Angle Sum / Linear Pair

Prove: $m\angle ACD = m\angle BAC + m\angle ABC$