Name _____

Due Date _____

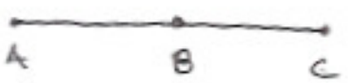
Block _____

Geometry Cumulative Review # 5

★ ① Given: $2m\angle ABC = 60°$

Prove: $m\angle ABC = 30°$

★★ ②

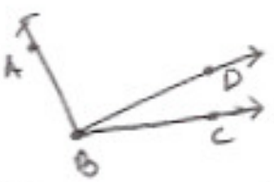


Given: $AC = 4$

$AB = 2$

Prove: B is midpoint $\overline{AC}$

★★ ③

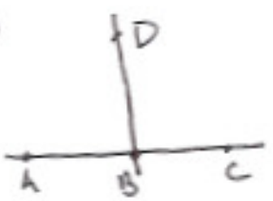


Given: $m\angle DBC = 20°$

$m\angle ABD = 72°$

Prove: $m\angle ABC = 92°$

★★ ④



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

Prove: $AC = 2BC$

★★★ ⑤

Given: $m\angle ABG = 45°$

$m\angle GBC = 45°$

Prove: $\angle DBF$ is a rt. $\angle$

★★★ ⑥

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

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

★★★ ⑦

Given: $2m\angle ABD = m\angle GHI$

$m\angle CBE = 30°$

Prove: $m\angle GHI = 60°$

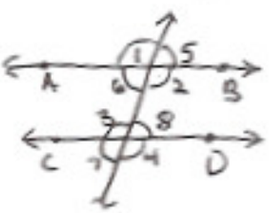
★★★ ⑧

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

C is mid point of $\overline{BD}$

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

★ ⑨



Given: $\overline{AB} \parallel \overline{CD}$

Prove: $\angle 1 \cong \angle 4$

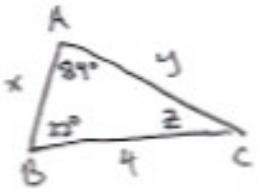
★ ⑩

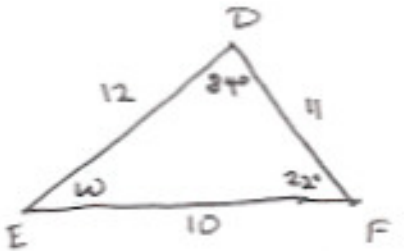
Given: $m\angle BAC + m\angle ABC = 130°$

Prove: $m\angle ACB = 50°$

Determine why $\triangle \sim \triangle$. Then find the length of the missing sides and the measure of the missing angles.

(11)





$\triangle$ _____ $\sim$ $\triangle$ _____ by _____