Geometry Bellwork Friday, December 13, 2013

1. Can you prove the triangles are congruent using this information? If yes, give a reason.

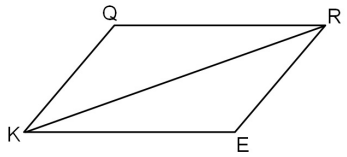
a. Given $\triangle CQG$ and $\triangle AMH$ with $\overline{CQ} \cong \overline{AM}$, $\overline{GC} \cong \overline{HA}$, and $\angle G \cong \angle H$.

b. Given $\triangle KRE$ and $\triangle DWP$ with $\overline{RE} \cong \overline{WP}$, $\overline{EK} \cong \overline{PD}$, $\angle R \cong \angle W$,and $\angle K \cong \angle D$.

2.

Given: $\overline{QR} \parallel \overline{EK}$ and $\overline{QR} \cong \overline{EK}$.

Prove: $\triangle QRK \cong \triangle EKR$

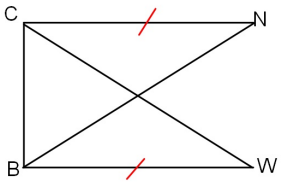


Statement	Reason
1. $\overline{QR} \parallel \overline{EK}$ and $\overline{QR} \cong \overline{EK}$.	1.

3.

Given: $\overline{NC}$ and $\overline{WB}$ are both $\perp$ to $\overline{BC}$

Prove: $\triangle CBW \cong \triangle BCN$



Statement	Reason
1. $\overline{NC}$ and $\overline{WB}$ are both $\perp$ to $\overline{BC}$	1.