Geometry 1c: Angles & their Measures
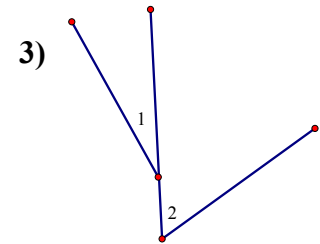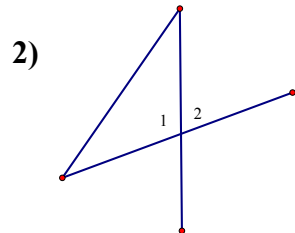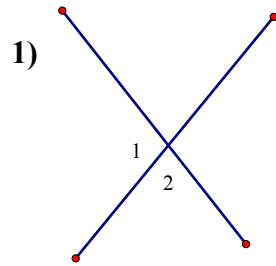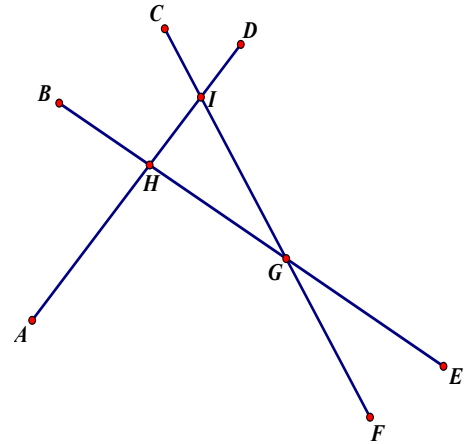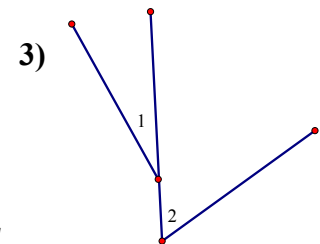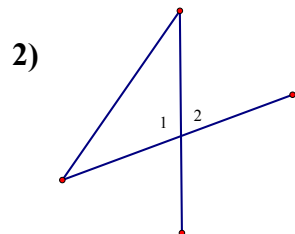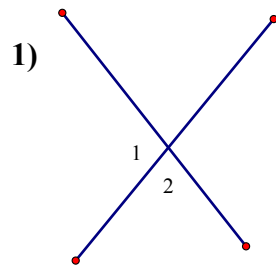**Homework #3**
*REMEMBER to do in Power HW Format!!!
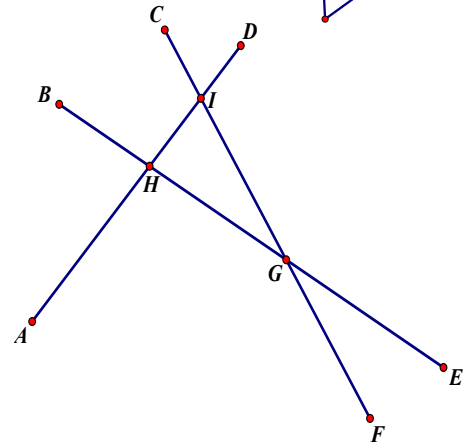
Name _____

Per _____   Date _____

*In 1–3, determine if the pair of angles (∠1 and ∠2) is **adjacent** or **not adjacent**.*
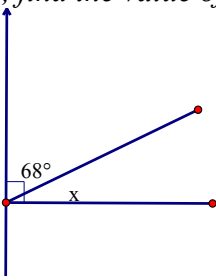
1)

2)

3)

4) In the diagram to the right, if $\overline{BE} \perp \overline{AD}$, $m\angle CIH = 116°$,
and $m\angle CGH = 30°$. Determine $m\angle DIG$, $m\angle IGE$,
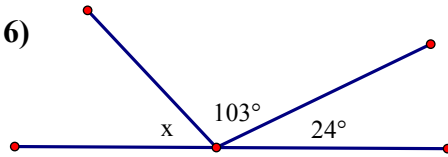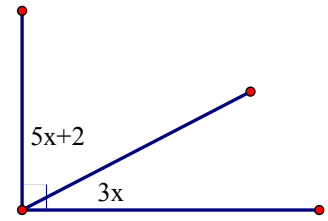$m\angle BHA$, $m\angle HGF$, and $m\angle HIG$.
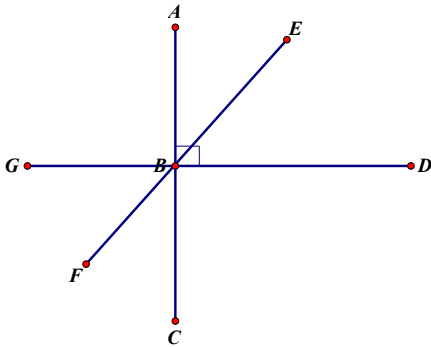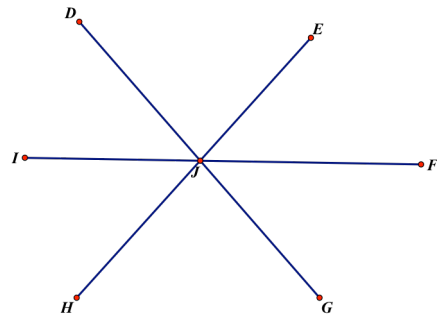
For each, find the value of x.

5)

68°

x

6)

103°

x

24°

7)

5x+2

3x

8) Given the figure below, name two unique pairs of supplementary angles

A   *E*

G   *B*   *D*

F

C

9) Given the figure below, name an angle supplementary to ∠**DJI**. Name a different angle supplementary to ∠**DJI.**

D   *E*

I   *J*   *F*

H   *G*

For each, find the value of x.

5)

68°

x

6)

103°

x

24°

7)

5x+2

3x

8) Given the figure below, name two unique pairs of supplementary angles

A   *E*

G   *B*   *D*

F

C

9) Given the figure below, name an angle supplementary to ∠**DJI**. Name a different angle supplementary to ∠**DJI.**

D   *E*

I   *J*   *F*

H   *G*