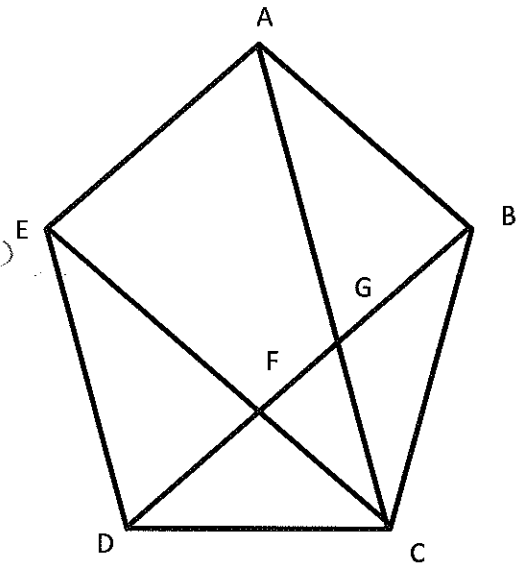
**Honors Geometry** **DATE:** 10/29
**Unit 2 Study Guide Examples**

**1.** Find the following:




a) $\overline{FC} \cup \overline{FE}$ = $\overline{CE}$ or $\overline{EC}$

b) Name 3 collinear points A, G, C (other ans. possible)

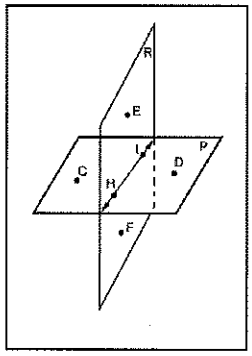
c) $\overline{BA} \cap \overline{EC}$ = $\emptyset$

d) $\overrightarrow{BD} \cup \overrightarrow{BA}$ = $\angle DBA$ or $\angle ABD$

e) $\overrightarrow{GC} \cap \overrightarrow{BD}$ = G

f) $\overline{EF} \cup \overline{DF} \cup \overline{ED}$ = $\triangle EFD$

**2.** Find the following:

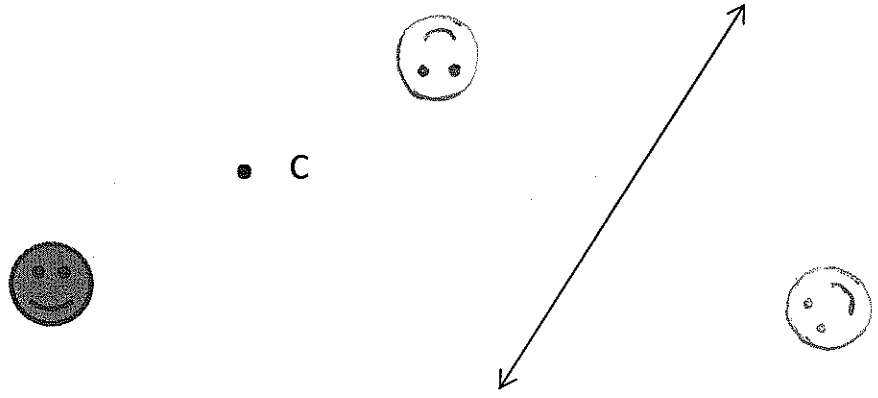



a) Plane R ∩ Plane P = $\overleftrightarrow{HI}$

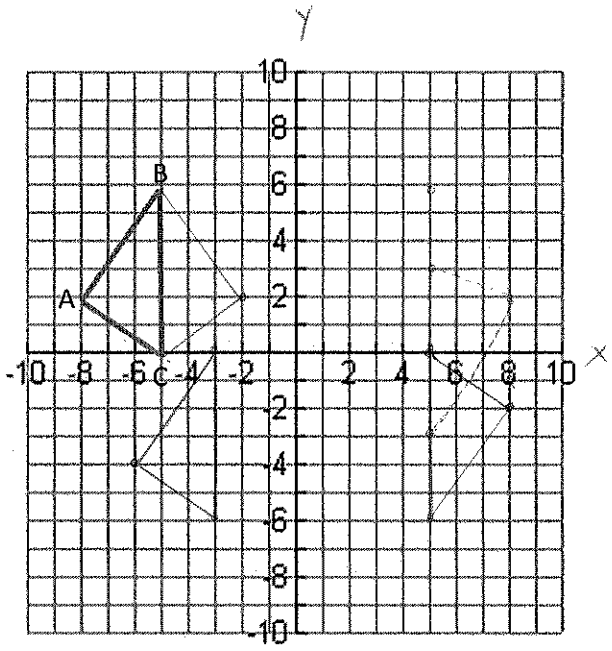
b) Name 4 coplaner points

C, H, I, D (on plane P)

**3.** Rotate the figure 180° clockwise around point C and then reflect it over the given line.



**4.** Use the graph to perform the following transformations. Use Triangle ABC as your pre-image for each transformation.




**a)** Translate the figure 6 units down and 2 units right. Write the coordinates of your new image.

$A'(-6, -4)$
$B'(-3, 0)$
$C'(-3, -6)$

**b)** Reflect the figure over $\overline{BC}$. Write the coordinates of your new image.

$A'(-2, 2)$
$B'(-5, 6)$
$C'(-5, 0)$

**c)** Rotate the figure 180 degrees clockwise about the origin. Write the coordinates of your new image.

$A'(8, -2)$
$B'(5, -6)$
$C'(5, 0)$

**d)** Perform a glide reflection over the y-axis and down 3 units. Write the coordinates of your new image.

$A'(8, -1)$
$B'(5, 3)$
$C'(5, -3)$

**e)** What glide reflection would move the image in question **4d)** back to the pre-image?

Glide reflection: 3 units up and reflection over the y-axis.