Constructing Points, Lines, Planes, Rays and Segments

Read the following list of requirements to construct the appropriate model. Then answer the follow-up questions.

Model Requirements:

- $\overline{AB}$ and $\overrightarrow{CD}$ are parallel

- $\overrightarrow{CA}$ is parallel to $\overline{BD}$

- $\overleftrightarrow{EF}$ is parallel to $\overrightarrow{CD}$, but noncoplaner

- Point G, H and Z are coplaner with A, B, C and D

- $\overline{GZ}$ is coplaner, but not parallel with $\overrightarrow{CA}$ or $\overrightarrow{CD}$

-Point I is noncoplaner with Point G

-$\overleftrightarrow{EI}$ passes <u>through</u> the plane

Model:

Questions:

1.) Name a plane from your model: _____

2.) Name a ray other than $\overrightarrow{CA}$ or $\overrightarrow{CD}$: _____

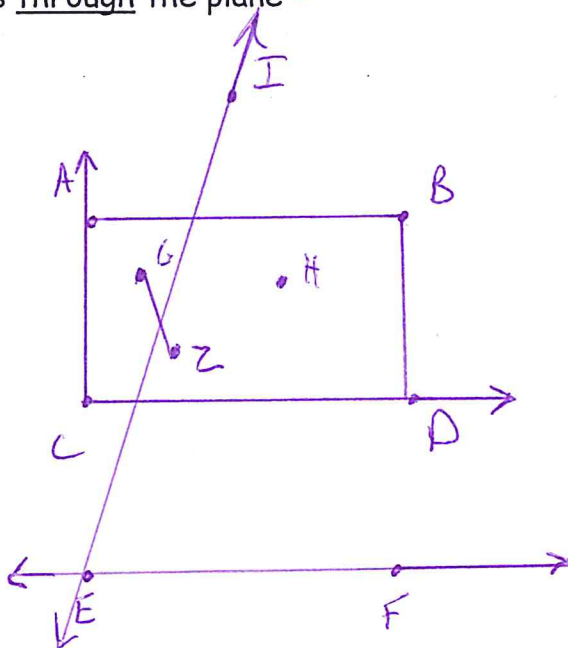3.) Points E and H are collinear because: _____

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- Point I is noncoplaner with Point G ✓

- $\overleftrightarrow{EI}$ passes through the plane ✓

Model:

Questions:

1.) Name a plane from your model: ~~ABCD~~ ABDC

2.) Name a ray other than $\overrightarrow{CA}$ or $\overrightarrow{CD}$: $\overrightarrow{EF}$

3.) Points E and H are collinear because: any 2 points can form a line.