



Engineering Virtual Learning

HS Machine Drafting

Lesson #33

May 20, 2020

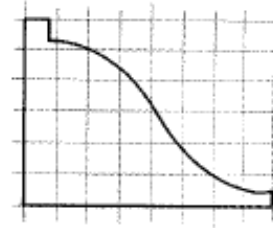
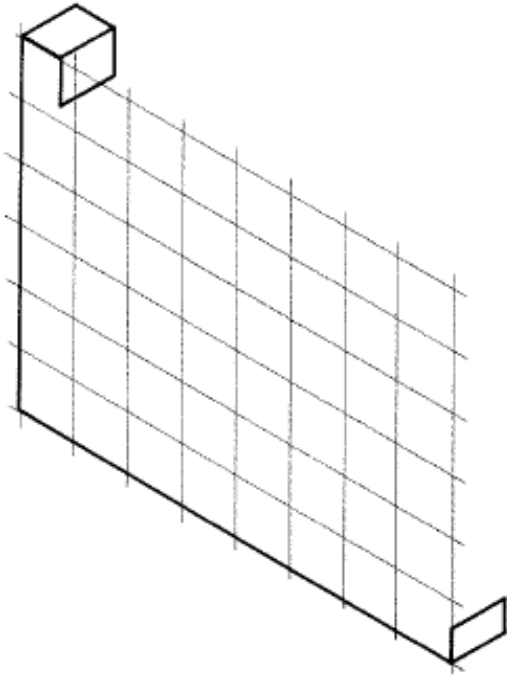


**Objective/Learning Target:**  
Students will Utilize Drawing Skills  
in Sketching Geometric Objects.

# Learning Practice: Concept Sketching

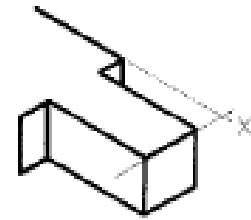
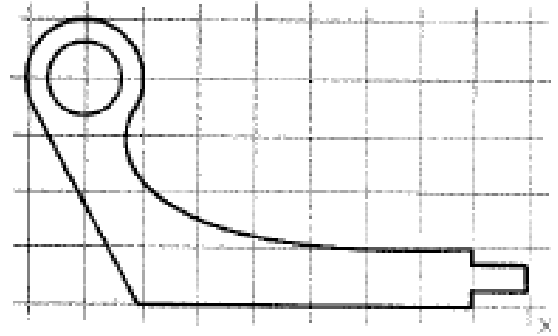
Use your engineers notebook or the Graph Paper printed from the resources link to recreate the following objects:

Transfer points from the grid at the right to the grid below and complete the isometric drawing of the *Brace*. Use an irregular curve to connect points.



Recreate the upper right view into an Isometric view.  
It may be easier to scale up by 2 or 4.  
-Hand Sketch Only-

Develop an isometric drawing of the *Lever* using a grid to transfer points. Begin the grid at point X and double the size of the squares. Use an irregular curve to connect points and either an ellipse template or the four-center method to draw the circular features (ellipses).



Can you find something around your house with an “Irregular Curve” to help you sketch with?

# Learning Resource Links:

Grid and Isometric Graph paper:

[https://www.printablepaper.net/category/isometric\\_graph](https://www.printablepaper.net/category/isometric_graph)