Unigraphics Lab Exercise #2

Start and name a new file. Enable the grid display and the grid snap.

Use the INSERT > CURVE > RECTANGLE command to create a rectangle with dimensions of 3 units in the ‘X’ direction and 2 units in the ‘Y’. Use the coordinate input windows of the Point Constructor to locate one corner at the coordinate system origin (X=0, Y=0, Z=0) as shown.

Use the Screen Pop-up menu command of REPLACE VIEW > TFR_ISO to change your view orientation.

Use the WCS > ROTATE command to rotate the current coordinate system orientation 90 degrees about the positive ‘X’ axis. Your view should appear as shown in the figure below.
Use the Screen Pop-up menu command of REPLACE VIEW > FRONT to change your view orientation.

Open the INSERT > CURVE > BASIC CURVE > LINE command and set the POINT METHOD to CURSOR LOCATION.

Sketch the four addition curves shown.

Use the Screen Pop-up menu command of REPLACE VIEW > TFR_ISO to change your view orientation.
Select Edit > Transform and then pick the four curves created in the last operation. Select Transformation type Translate and option To A Point. When prompted for the Reference Point, select the curve endpoint at the origin. When prompted for the Destination Point, select the endpoint to the right. These two points are marked by “stars” (*) in the figure below.

Select the command INSERT > CURVE > BASIC CURVES > LINE command. Toggle of the String Mode option. Create the last three curves from endpoint to endpoint of the existing curves.