CHAPTER 15 EXERCISES

1. Stationing of a Road

Complete the drawing of the centerline of a road shown in Figure CE15-1 using a continuous Pline. Then, use the Measure command to break the line into stations. Beginning at the P.O.B., the stations will be 100' apart. Be sure to change your PointStyle so that you can see the points that are created. SaveAs STATIONS.

2. Land Section

Create a grid as shown in Figure CE15-2 by drawing vertical and horizontal Xlines and Offset them 10'. Use a separate Layer for the Xlines to assign them a Hidden linetype. Create a section cut through the hill by drawing a Spline through the points indicated. SaveAs CE15EX2.
3. **Angle Bracket**

Draw the angle bracket shown in Figure CE15-3. Use the *Region* command to create a single entity out of the many drawing elements you used to create the shape. Notice how the entire object can then be selected by just one pick point. *SaveAs L6X4.*

![Figure CE15-3](image)

4. **Bolted Connector**

Create the drawing of the high-strength bolt shown in Figure 15-4. The diameter of the bolt is 3/16”, the length is 2”, and the head of the bolt is 3/8” across the flats. Since this is a schematic thread representation, you can estimate the thread pitch (distance between crests or roots). *SaveAs CE15EX4.*

![Figure CE15-4](image)