

This is an intermediate to advanced calculation project that appeared in the *March 1991* issue of the *Modern Machine Shop* magazine ([www.mmsonline.com](http://www.mmsonline.com)), and is presented with permission. The objective is quite simple - to calculate the unknown radius  $R$  from the data provided in the attached drawing.

As in many similar calculations, the ability to see *what* features have to be solved is often more important than the actual ability of the programmer to find a solution. The example shows a classic use of an unknown dimension in the drawing. A CAD/CAM generated drawing would most likely have the dimension specified.

