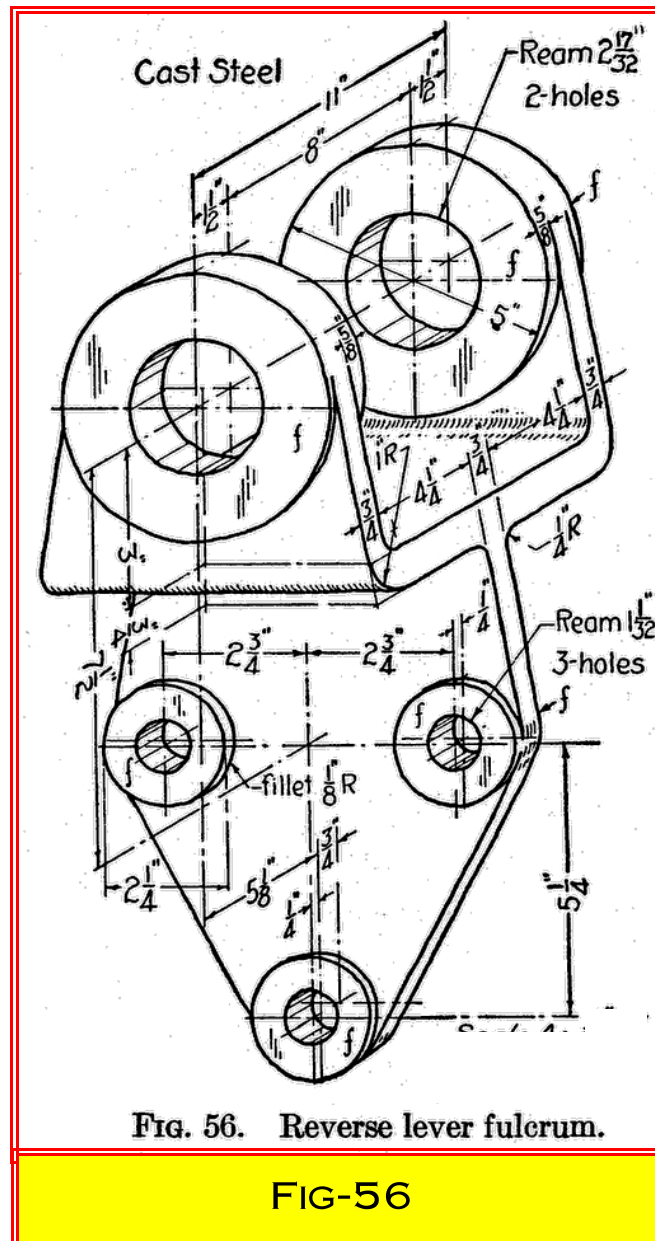
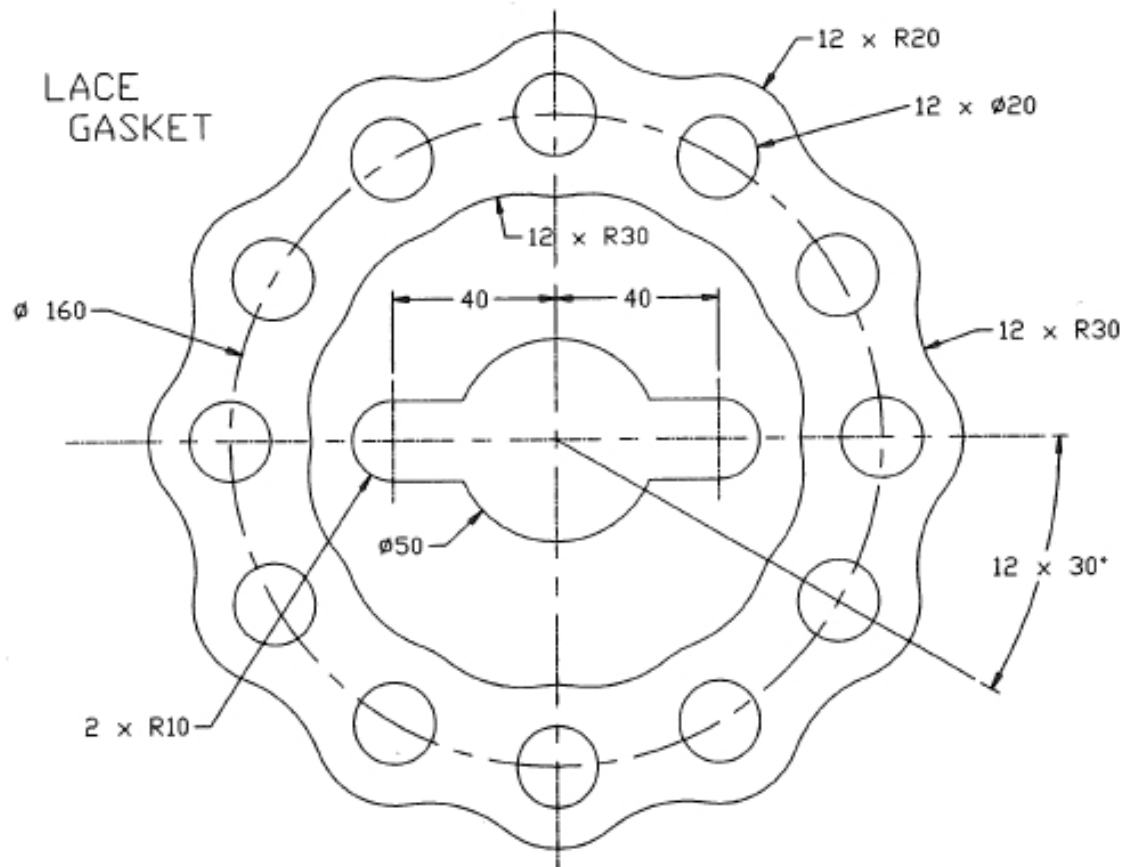




Please prepare a three dimensional model of the part shown using the Model portion of Siemens NX. Submit your solution file to BlackBoard. The file name used for your submittal must have the following form:

Fig-56.prt

The three small round bosses are only on this side of the part. The side you cannot see is smooth. Provide a $\frac{1}{8}$ " fillet around the small bosses and on either side of the large cylinders. The part is symmetrical, front to back and right to left. The sloped front and back need to be cut after you create the lower piece and the U-shaped upper piece. Make them larger than required and trim them to suit the angle.



LACE GASKET

Please prepare a three dimensional model of the part shown using the Model portion of Siemens NX. Submit your solution file to BlackBoard. The outer ring of the Gasket is to be 3mm thick. The inner portion is to be 1.5mm thick centered on the 3mm ring. Make the outside of the inner ring larger than needed so that it intrudes into the 3mm portion. This eliminates having to match the oddly shaped border using the Project Curves tool on the Sketch tools pull down. The file name used for your submittal must have the following form:

Lace Gasket.prt

The part has symmetry that might be useful in preparing your model. Arcs that appear to be tangent may be assumed to be tangent. I suggest using the Fillet tool to make the 30mm radius arcs between the 20mm radius arcs centered on the holes. Remember using the Mirror tool can minimize your effort.

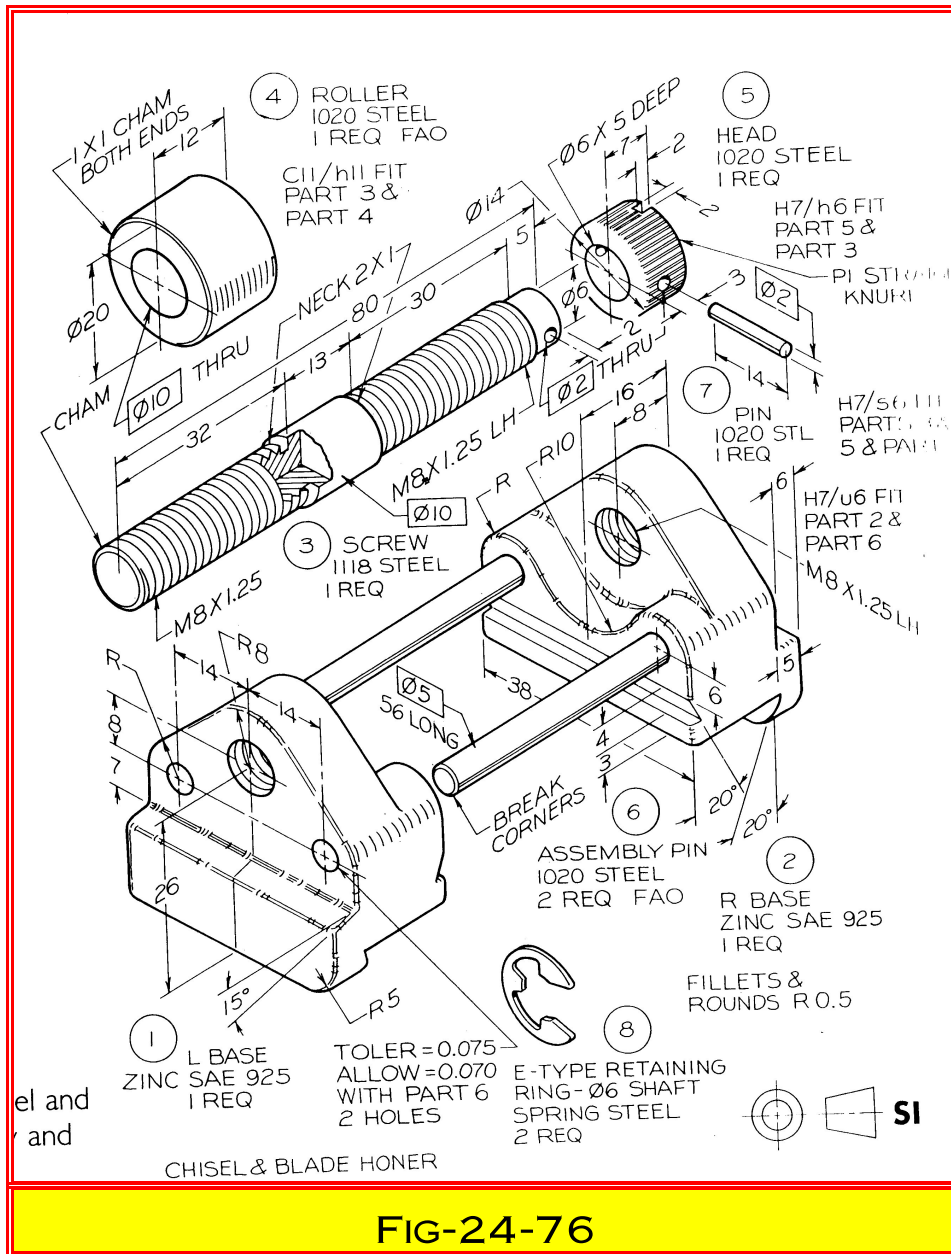


FIG-24-76

Please prepare three dimensional models of the parts shown using the Part and Assembly portions of Siemens NX. Submit your solution file BlackBoard. I recommend prefixing each part name by the part number. The file name used for your submittal must have the following form:

Fig-24-76.zip

Since this is an assembly project, you will need to make each of the individual parts and assemble them into a complete Chisel Honer. Once assembled, all parts and the assembly are to be encapsulated in a ZIP file for submittal to BlackBoard. Because this is the Final Exam, there will be no submittal of individual part files to BlackBoard.

The Knurl on the round knob in Fig-24-75 Chisel Honer has straight knurling on it at a pitch of 1mm. I suggest making one groove .4mm wide and then make a circular pattern of that groove setting it for 44 equally spaced grooves. Note the Screw has threads on both ends and that one of the threads is Left Handed. The bases need to be made to suit. I am providing Part 08 E-clip retaining Ring.