

➤ Lab HW5

Objectives

- *Understand the top-down assembly approach.*
- *Understand the bottom-up assembly approach.*
- *Assemble the components of the assembly using the assembly constraints.*

➤ Assembly Model

In this part, you will **create all the components** of the Pedestal Bearing assembly **and then assemble them**, as shown in **Figure 1**.

The dimensions of the components are shown in **Figure 2** through **Figure 5**. The exploded state of the Pedestal bearing is offered in **Figure 1-1** just for your reference.

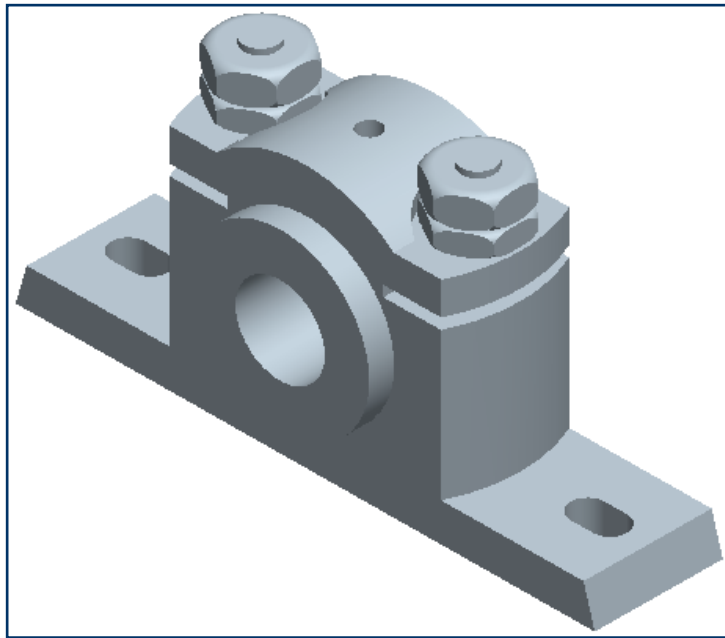


Figure 1 Assembly of the Pedestal Bearing

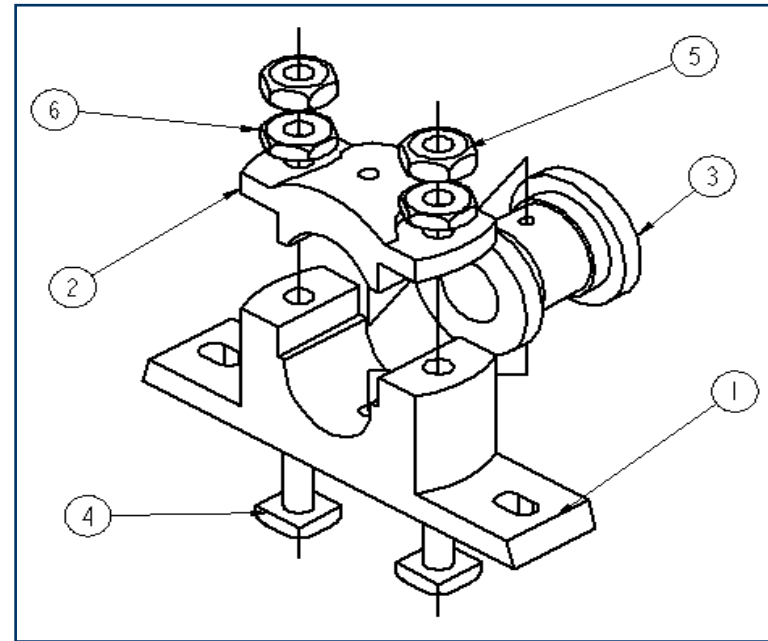


Figure 1-1 The exploded state of the Pedestal Bearing

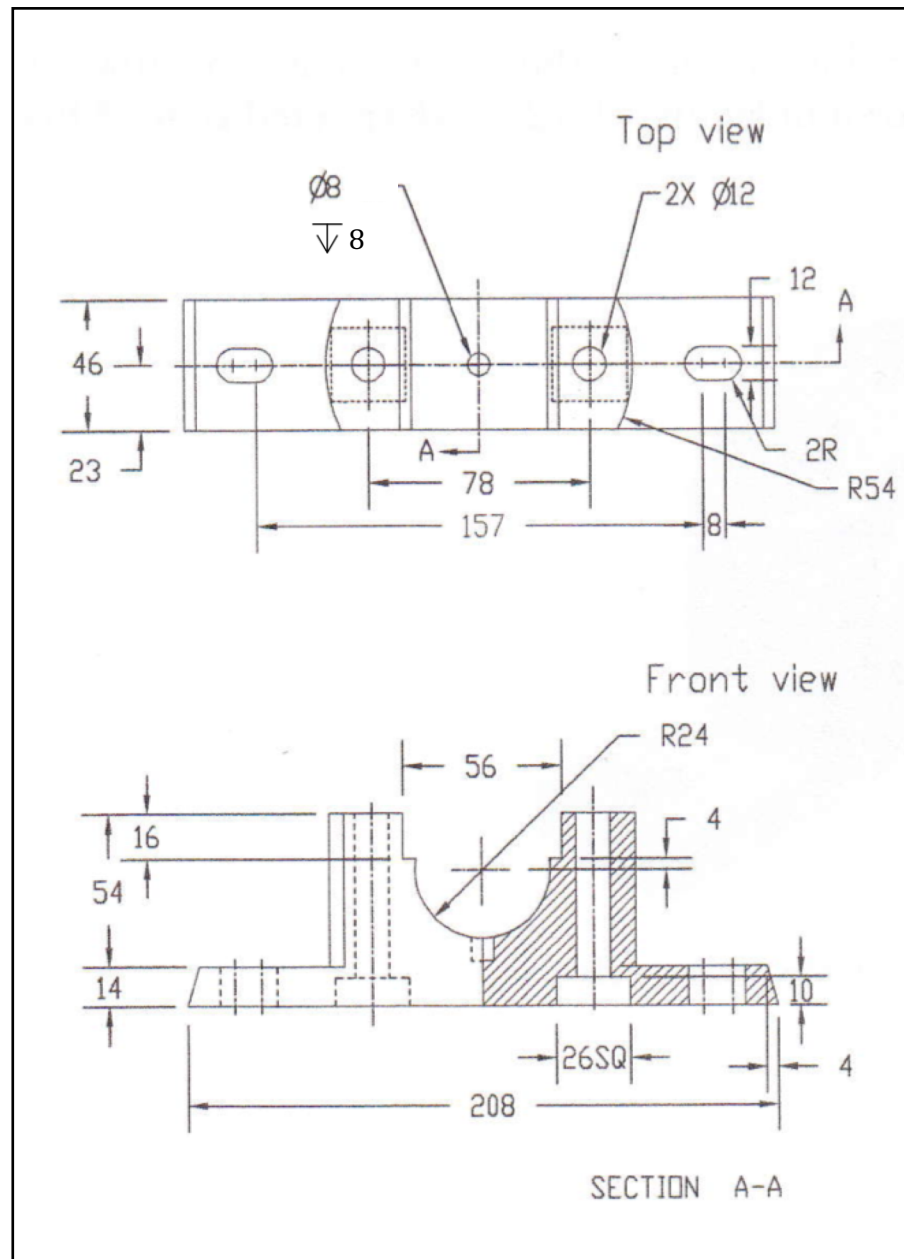


Figure 2 Dimensions for the Casting

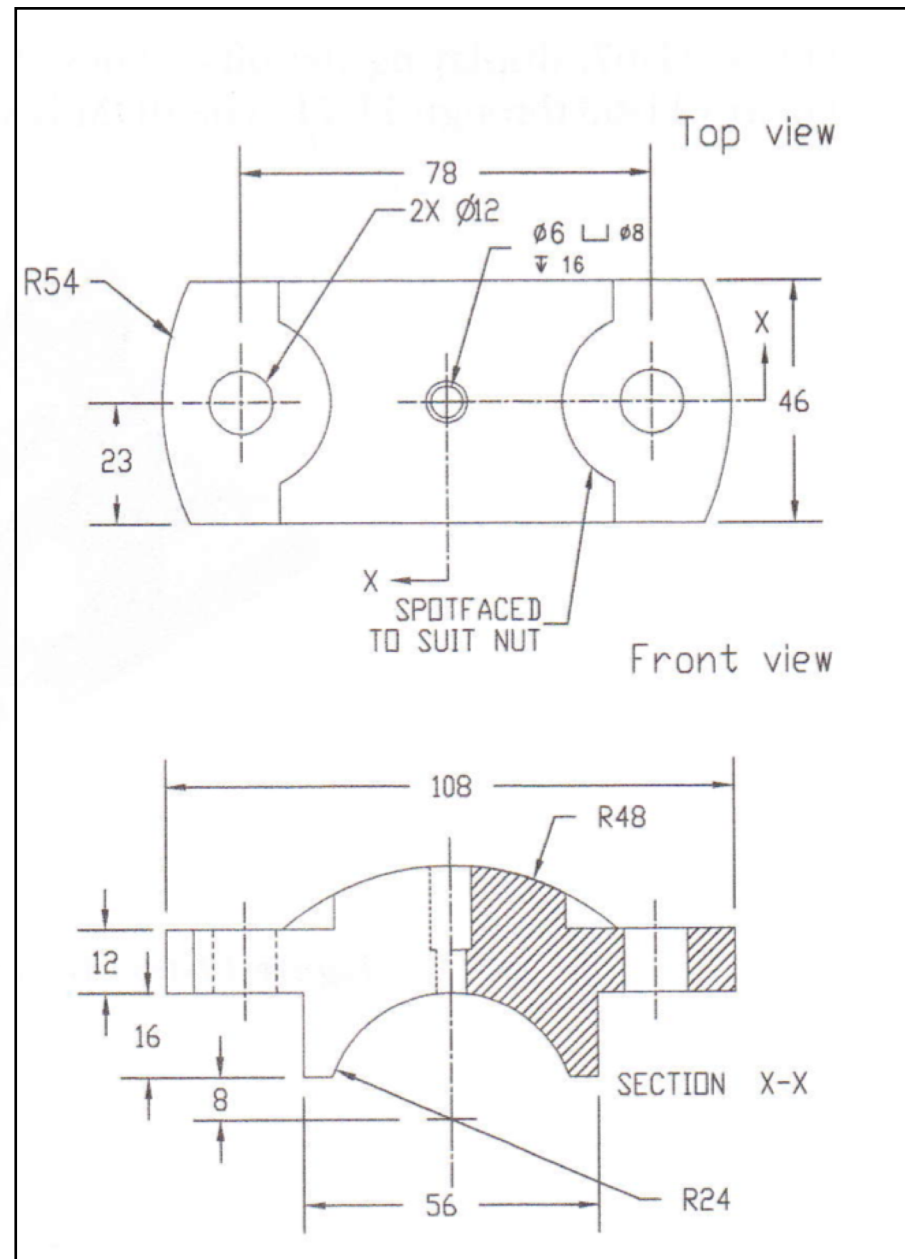


Figure 3 Dimensions for the Cap

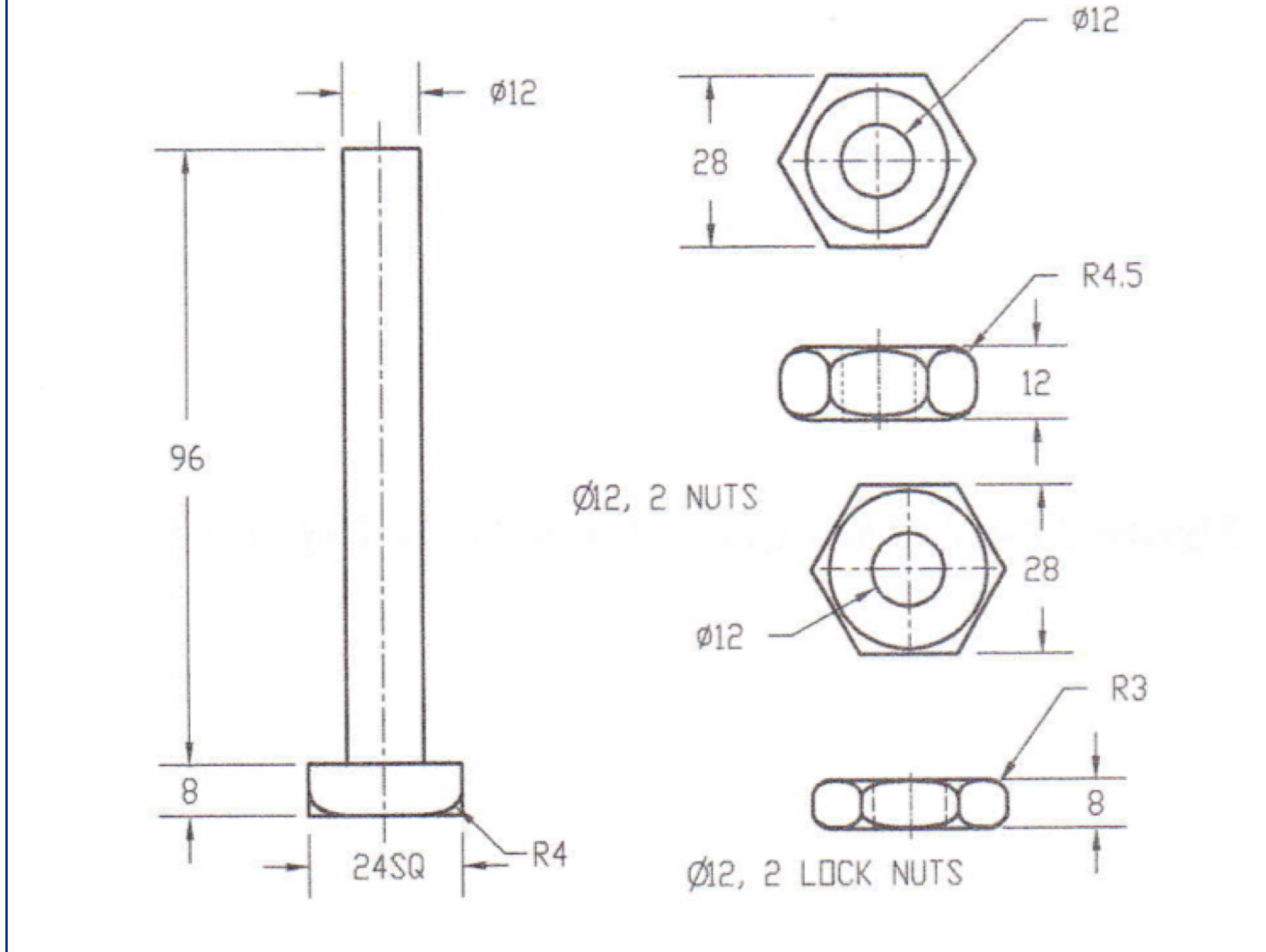


Figure 3 Dimensions for the components of the assembly

Hint: Step-by-step instruction on creating a nut

<https://grabcad.com/tutorials/nut-using-intersect-in-fusion-360>

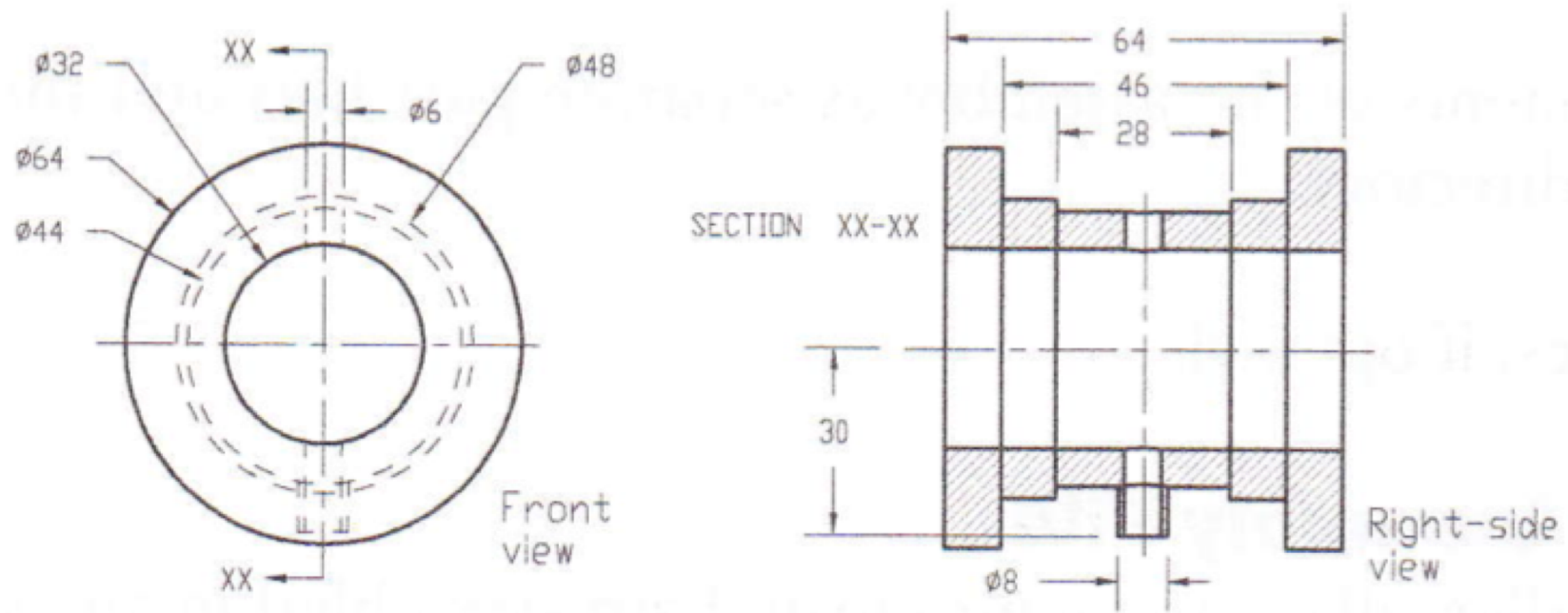


Figure 4 Dimensions for the Brasses