

MAE 3195, Credit Sheet 9, Tutorial Lesson 7

Patterns and Copies

For this homework, read and work through Lesson 7 in your text *ProEngineer Tutorial*. Before you launch Pro/E, make a new sub-directory in your personal MAE3195 directory titled “HW9” and use HW9 as your working directory. When the book asks you to create parts named “pattern1”, “flange”, “turbo”, and “wheel.rim”, name them respectively “***-pattern1”, “***-flange”, “***-turbo”, and “***-wheel.rim”, where *** indicates your primary initials.

Since this is a tutorial homework, each individual must perform this work independently. You are encouraged, however, to discuss the assignment with other students as necessary.

It is recommended (but not required) that you study the “Questions for Review” and create some of the “Exercise” models at the end of the chapter. After completing the lesson, answer the following questions and bring this Credit Sheet with you to class on the due date.

Review Questions

1. When creating a revolved protrusion, does the sketch have to be open or closed or can it be either? What about for a revolved cut?
2. What is the first feature in a pattern called?
3. What is meant by a “radial” hole? Illustrate with dimensions the design intent of a radial hole.
4. What is the difference between independent and dependent copies?
5. What dimensions are available for patterning a feature?