INT109-1.2 Lab: Answer the following lab questions. Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Refer to drawing number 71204020 from the text book instructor package. Answer the following questions.

1.) What is the diametral pitch (Pd) of this gear?

2.) Is the addendum 1/Pd?

3.) What is the pitch diameter of this gear?

4.) A mating gear for this gear must have a pressure angle of \_\_\_\_\_.

5.) Is the part number to be marked on both sides of the gear?  
          
6.) What size pin is specified for measuring the diameter over pins?  
          
7.) After hobbing, the circular tooth thickness should be \_\_\_\_\_, and then reduced to \_\_\_\_\_ by grinding.

8.) Is the AGMA gear class specified by the print very precise or not very precise?

9.) What type of line is used to indicate the outside diameter of the gear?  
          
10.) What is the range of backlash specified for this gear?

11.) What is the 1/2″ notch on the central hole called?

12.) Are the section lines indicative of the material?

13.) What material is used for this gear?

14.) What geometric tolerances are specified by a general note instead of a feature control frame?

15.) Are any dimensions specified using the limit method of tolerancing?"

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