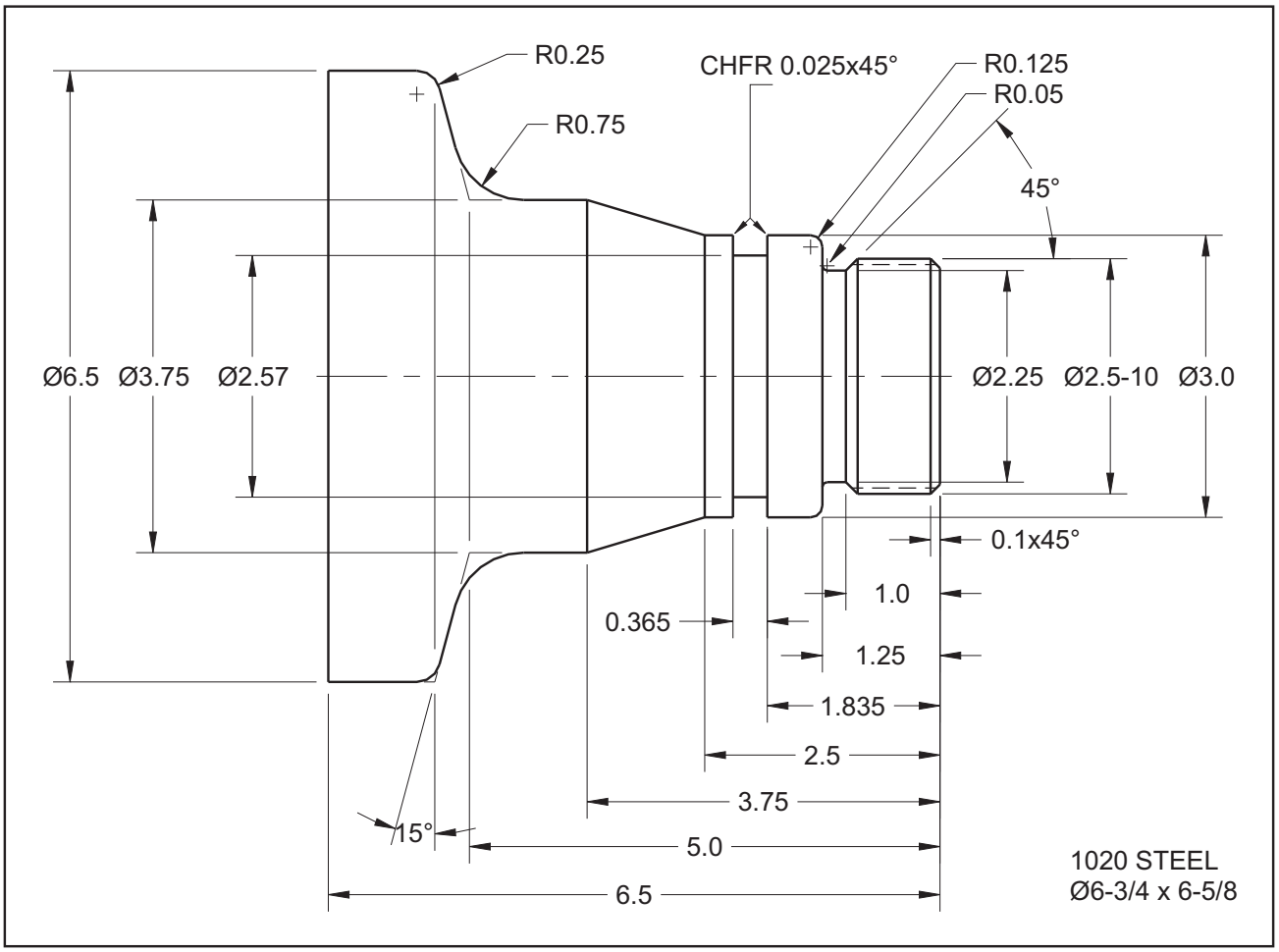
06-02 Lathe Drawing

CNC programmers generally work from engineering drawings. Whether these drawings are in the CAD or paper form, they are a valuable source of information for programming. The objective of this simple lathe project is to *evaluate* the drawing below, and answer the questions that follow on the next page.



➲ Notes:

#	Question	Answer
1	Explain the dimension ∅2.5-10	
2	What does the dimension CHFR 0.025x45° mean?	
3	Where would the most likely program zero (program origin) be on the part?	
4	What kind of material is used for the part?	
5	What does the designation ∅6-3/4 x 6-5/8 mean?	
6	How would any existing thread be described in the metric system (description only)?	
7	How is the ∅3.75 in the drawing measured?	
8	How would you find the depth of the thread?	
9	What is the width of the flat recess on the ∅2.25 diameter?	
10	What is the size of the undimensioned chamfer in the recess groove?	
	BONUS QUESTIONS	
11	Based on the information given, what would be the maximum depth of grip for chuck jaws holding the part?	
12	Describe briefly how would you setup and machine the part, based on the supplied drawing.	