

**Lab-5A Assignment**

Due next week (07/29/20)

Review Test due (07/22/20)

**TUTORIALS:** Follow the Lab-5A SolidProfessor tutorials and take the Review Test by the end of today (due today 07/22/20)

1. **Follow the Lab-5A GUIDED EXERCISES to create drawings of the Clevis, Holder, and the Brace** Please fill the Title Block of each drawing with relevant information as shown in Fig. 1 and please save each drawing as a PDF file ( use SOLIDWORKS' "Save as" → "Adobe PDF") - due 7/29/20.

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	MAE-94 UCLA	
DIMENSIONS ARE IN INCHES		DRAWN	RSS	4/27/20	TITLE:  Clevis
TOLERANCES:		CHECKED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
FRACTIONAL ±		ENG APPR.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
ANGULAR: MACH ± BEND ±		MFG APPR.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
TWO PLACE DECIMAL ±		Q.A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SIZE DWG. NO. REV <b>A</b> L6-BS1-01 0
THREE PLACE DECIMAL ±		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER:					SCALE: 2:1 0.11 pound SHEET 1 OF 1
MATERIAL		CAST IRON			
FINISH		POWDER COAT			
DO NOT SCALE DRAWING					

Figure 1: Example of populated "Title Block"

2. **Complete the three Lab-5A PRACTICE EXERCISES and save all three drawings as PDF files (Swivel, Dual Hose Fitting, Knuckle Joint).**

Again, for each drawing please fill the Title Block with relevant information and save each drawing as a PDF file.

**Deliverables:**

Combine all six drawings (Clevis, Holder, Brace, Swivel, Dual Hose Fitting, and Knuckle Joint drawing-pdf files) into a single pdf file<sup>1</sup> and upload it as "LastName\_Drawings.pdf" to CCLE (due 7/29/20).

<sup>1</sup> If you are not able to combine the individual pdf files directly into a single pdf file, copy and paste snapshots of the PDF file (not the SW screen) into a PowerPoint and use the instructions outlined here to convert it to a pdf:

[https://docs.ccle.ucla.edu/index.php?title=How\\_do\\_I\\_convert\\_my\\_PowerPoint\\_Presentation\\_to\\_PDF](https://docs.ccle.ucla.edu/index.php?title=How_do_I_convert_my_PowerPoint_Presentation_to_PDF)