Technical Graphics:



Assignment: Part I

- Open the .idw
 - In S:\{Your Class}\Class Files\P9_1.idw
- Add Centerlines
- Add "Standard" Dimensions



1/28/2013 - jcs

Sketched Solution



1/28/2013 - jcs

P9.1-1: Centers

Center: Pro Place Views Annotate	User Surface Weldi Impor									
Line, Bisector, Mark, patt	Symbols									
Format										
Style and Standard Editor										
ANSI	/ Style and Standard Editor [Library - Read Only]									
Global Line Scale:.3	DIN General View Preferences Avaiable Styles Object Defaults Material Hatch Pattern Defaults GB - ISO Units Character Exclude List JS Baloon - Incear Decmal Marker I, O, Q, S, X, Z Apply to: ✓ View Names # D Demonson - Hole Tables / Tags Hole Tables / Tags - Hole Tables / Tags									
PRO Place Views Annotate Tools Manage View Environmen	Image: Hatch Preset Values Image: Revision Tables / Tags Image: Hole Table Image: Hole Table Image: Bend Tables / Tags Image: Hole Table Image: Hole Table Image: Bend Tables / Tags Image: Hole Table Image: Hole Table Image: Bend Tables / Tags Image: Hole Table Image: Hole Table Image: Bend Tables / Tags Image: Hole Table Image: Bend Tables / Tags Image: Bend Tables / Tags Image: Hole Table Image: Bend Tables / Tags Image: Bend Tables / Tags Image: Hole Table Table Image: Bend Tables / Tags Image: Bend Tables / Tags Image: Hole Table Table Image: Bend Tables / Tags Image: Bend Tables / Tags Image: Hole Table Table Table Tables Image: Bend Tables / Tags Image: Bend Tables / Tags Image: Hole Table Table Table Tables Image: Bend Tables / Tags Image: Bend Tables / Tags Image: Hole Table Table Table Tables Image: Bend Tables Image: Bend Tables Image: Hole Table Table Tables Image: Bend Tables Image: Bend Tables Image: Hole Table Table Tables Image: Bend Tables Image: Bend Tables Image: Hole Table Tables Image: Bend Tables Image: Bend Tables Image: Hole Table Tables Image: Bend Tables Image: Bend Tables Image: Hole Tables Image: Bend Tables									
Image: Constraint of the sector of the sec	↓ ✓ Leader 0.004 m 0.300 ↓ ♥ Object Defaults 0.202 n 0.202 n ↓ ♥ Parts List 0.028 n International Standard Reference ↓ ♥ Sector Table 0.039 n ANSI ↓ ♥ Table 0.079 n ANSI ↓ ♥ Wanotation 0.110 n Comments ↓ ♥ Wex Annotation ↓ ♥ Wex Annotation ↓ ♥ Wex Annotation ↓ ♥ Wex Bead ↓ ♥ Wex ↓ ♥ Wanotation									
Update Parameters Styles and Standards	Import Done									

1/28/2013 - jcs

P9.1-1: Dimension

General Dimension

Options (Select Dimension)

Arrowheads Inside

_	_		
- 1			
- 7		Penest Ceneral Dimension	
		Repear General Dimension	
6		Delete	
	<	_	
C)		
	i.	Move Dimension	
	N	Copy Properties	
-		Copy Properties	
	_	Ontions •	Arrowheads Inside
- 1		options	En on neado anoide
- T		Precision •	
- 1			<u>1</u> st Arrowhead Inside
_		Edit	
		Tout	2nd Arrownead Insid
		<u></u>	
	-		Leader
_		Hide Extension Line	Ecoco
		Had Enternoion Ente	
_		Show All Extension Lines	
_		Edit 1st Arrowhead	
		Edit 2nd Arrowbood	
-		Eulic 2110 All Ownedu	
_	-		
		👍 New Dimension Style	
		f Edit Dimension <u>S</u> tyle	
-		· .	
_		Ot Zeen	
		<u>< 2</u> 00m	
		🕸 Pan	
		e Lan	
		Previous View F5	
		Help Topics	
-	Ζ.	00	
-			



P9.1-1: Dimension Style

Edit Dimension Style

Pre-select dimension



8

Delete Move Dimension

Copy Properties Qptions Precision Edit... Iext... Hide Extension Line Show Al Extension Line Edit 1st Arrowhead... Edit 2nd Arrowhead...

<u>New Dimension Style..</u>
 <u>Fdit Dimension Style...</u>
 <u>Ct Zoom</u>

F5

Pan
Previous View

Repeat General Dimension

1/28/2013 - jcs





۲

۲

Select Dimension

Right Mouse button

2.00

2.00

2.00

- Text
- Add / Enter: 2x

2xØ1.00

8.00

Format Text				
Style:				
MM-ANSI	~			
		% Stretch	Spacing	Value
		100	Single 💙	
Font		Size		Rotation
Arial	*	3.05 mm 🖌 🖌		~
Туре	Prope	erty	Precision	
	<u> </u>		2.12	× X
Component:	Source:	Parameter:	Precision	
~	Model Parameters	~	2.12	¹
			[2x<<>: ^
				~
<				>

P9.1-2:

Center Mark

Centerline Bisector

General Dimension

Angle

Reference Dimension



P9.1-2: Dimension - Angle

Select Lines

Not points



P9.1-2: Reference Dimension



1/28/2013 - jcs

P9.1-3: Section View

- Cutting Plane (Front view)
- Line Visibility
 - Select Line (right click)
 - Un-check visibility
- Edit the section View
 - View / Scale Label









1/28/2013 - jcs

P9.1-3: Dimensions

General Dimension



P9.1-3: Text

General Dimension







P9.1-4:



P9.1-5: Baseline Dims

Select

- all vertical references
- Continue
- Place the Dimension set





P9.1-5: Hole Notes

Requires Hole Feature in the part model

 Drawing Annotation Panel ▼
 Image: Constraint of the symbol

 Image: Constraint of the symbol
 Image: Constraint of the symbol

 Image: Constraint of the symbol
 Image: Constraint of the symbol

 Image: Constraint of the symbol
 Image: Constraint of the symbol

×



P9.1-5: Complete



P9.1-6: Complete

Includes



Assignment: Part II

□ Open the .idw:

AutomaticStop Plus.idw

Add "Standard" Dimensions

AutomaticStop Plus: Complete

(Find the missing dimension)



Standard Dimensioning - Inventor

1/28/2013 - jcs