# **Sketch Constraints III**

Using Autodesk Inventor

Continued from Sketch Constraints II

# **INITIALIZATION**





 Select: **Projects** Browse:

•



Project Name:



**•**••

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Vault Add-Ins Ċ

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Autodesk Inventor Professional 2012 - EDUCATIONAL INSTITUTION VERSION

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#### a. Startup

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Туре

Type a keyword or phrase



#### Example Project WindowYour folders will be different



# a. Inventor: Folder | Project

#### 2D Sketch Constraints

- Concentric
- Tangent

# **4. EXAMPLE 3:**



# • Save-As:

✓ Save in: 
✓ File name
✓ File type:

		Save As
orkspace	New •	Save As Save the file in the different file name in the default format.
Conc_Tangentipt	Save +	Save Copy As Save the active document contents to the file specified in the Save Copy As dialog box. The original file remains open.
Autodesk Inventor Parts (*.ipt)	Evport	Save Copy As Template Save the active file as a template in the template folder

M Save As Workspace ♥ Libraries Given Given Content Center Files	Save in: working Name OldVersions Coin_Hor_Ver.ipt	Image: Constraint of the system         Image: Constraint of the system         Image: Constraint of the system         Type         System         System         File folde         System         S
	✓ III File name: Conc_Tangentip( Save as type: Autodesk Inventor Parts (*.ipt)	
	Preview	Options Save Cancel
a Copy		



- De-select: <Esc> key
- Pop-up Menu: <rmb>
   Pick <lmb>: Show All Degrees of Freedom
- Display:



# Center Point Circle Center Point Circle Two Point Rectangle

# **d. Show Degrees of Freedom**





- Pick < lmb>:
   ✓Concentric: □
   ✓First Circular: □
   ✓Second Circular:
- Verify Results:





# g. Add: concentric constraint

- Pick <lmb>:
   ✓Line:
   ✓New Position:
   ✓Second Circular:
- Note:
  - Distortion



# h. Drag: Horizontal Lines



- Pick < lmb>: Sketch Sketch: **Dimension**:
- Results: • Values: • Restraints:



- Pick <lmb>: corner
- Drag: to origin

Fully Constrained

- Results: Coincident 🚰
- Note:
  - No Degrees of freedom





