## Part Modeling II

#### Using Autodesk Inventor • Features

- Options Properties

Inventor - Part Model II - jcs 2/22/2014

#### **Inventor Features**

- Extrude
- Taper

Note: Continued from Sketch Constraints I

#### **EXAMPLE 1**



**Workspace**: ∎

Open



File: From Sketch Constraints I









# Density General Properities Inertial properties:



C 10	2.180 g/cm^3	Low	I			•
General Prop	berties					
		~ •	_		Center o	f Gravity
Mass	0.204 lbmass	(Rela	1111	х	0.750 in	(Relative E
Area	12.220 in^2 (	Relati		Y	0.500 in	(Relative E
Volume	2.587 in^3 (R	elativ		z	-0.576 in	(Relative I
Inertial Pro	perties					
Prin	tipal		Global			Center of Gravity
Princ	pal Moments	_				
I1 0.0	51 lbmass in	I2 0	.079 lbmas	s in	13	0.098 lbmass in
Rota	tion to Principal	<b>D</b> [0	00 de  (D	-1-4		0.00 de - (Delet
Rx 0.0	) deg (Relat	Ry 0	.00 deg (Ri	elat	Rz	0.00 deg (Relat

kein\_Hor\_Ver.ipt iProperties

Solids

General Summary Project Status Custom Save

х

Physical

## e. Properties

#### **Inventor Features**

- Revolve
  - Angle
  - Direction

Note: Continued from Sketch Constraint II

#### **EXAMPLE 2**



Workspace:

Open



✓File From Sketch Constraint II:



a. Open (previous file)







## **b.** Save (frequently)



#### c. Revolve – angle / direction



- Continue From Sketch Constraints III
- Revolve
  - Axis
  - Angle
  - Direction

## **EXAMPLE 3:**



Open

## ✓Workspace:✓File: From Sketch Constraints III









#### Revolve – Sketch Axis Continued from Sketch Constraints IV

#### **EXAMPLE 4**



Workspace:



#### File: From Sketch Constraints IV



## a. Open (previous file)



## **b.** Save (frequently)







#### d. Material - Properties



#### d. Material - Properties



#### d. Appearance – Visual Style