	Al-Mustaqbal University / College of Engineering	
	Prosthetics & Orthotics Eng. Department	
	Third Class	
	Subject (Computer Application)	
	Code (UOMU٠١٠٣٠٥٢)	
	Asst. Lec. Ghadeer Haider	
	١st term – Lecture ٧	

Computer Application

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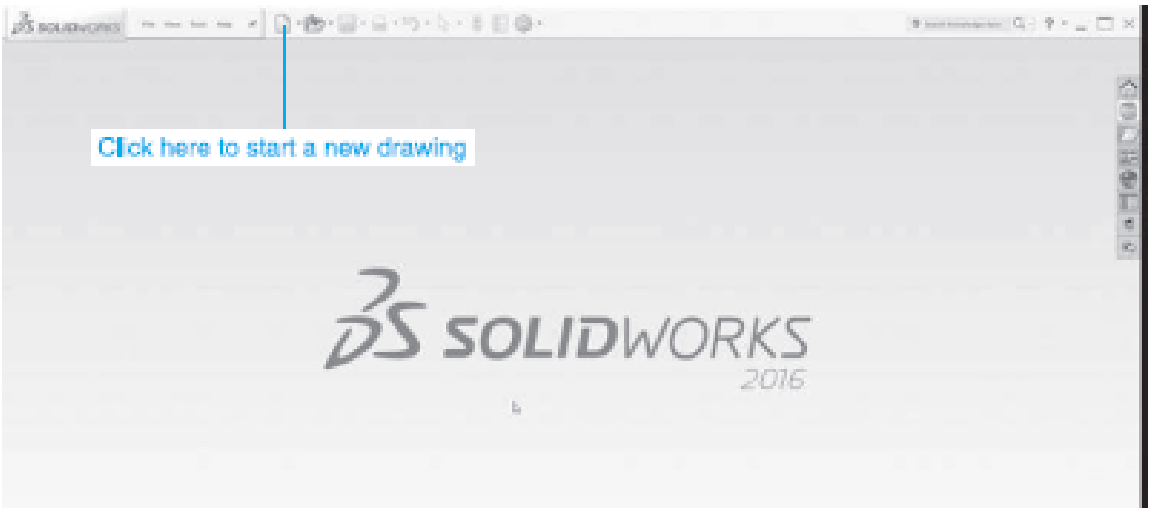
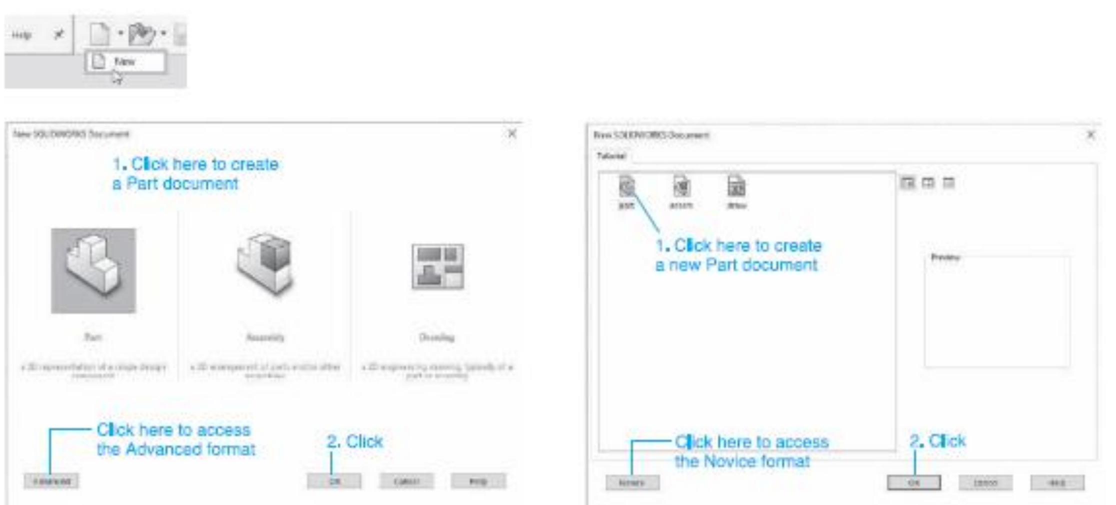
Starting a New Drawing



To Start a New Drawing

1 Click the **New** tool icon at the top of the drawing screen.

A new drawing screen will appear. See Figure 1-2. The **New SolidWorks Document** dialog box will appear. SolidWorks can be used to create three types of documents: **Part**, **Assembly**, and **Drawing**.



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To Select a Drawing Plane

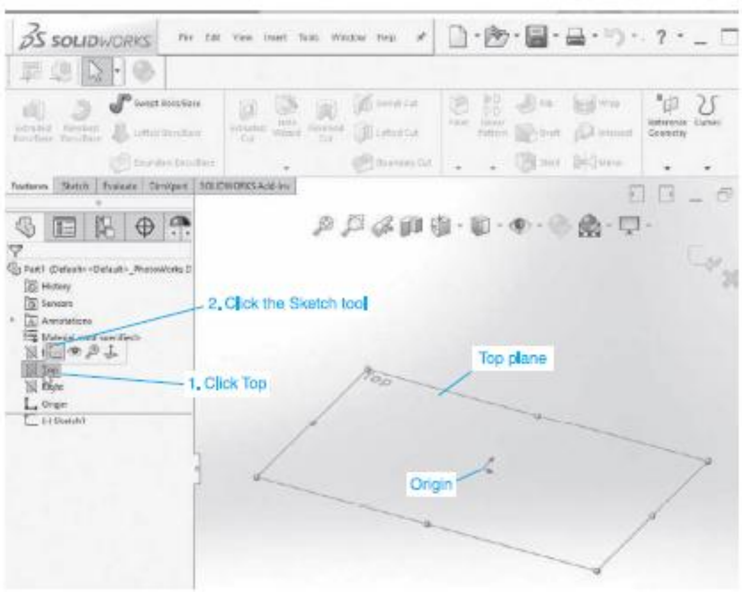
SolidWorks uses one of three basic planes to define a drawing: **Front**, **Top**, and **Right**. These planes correspond to the planes used to define orthographic views that will be explained in Chapter 4. The **Top** plane will be used to demonstrate the first few tools.

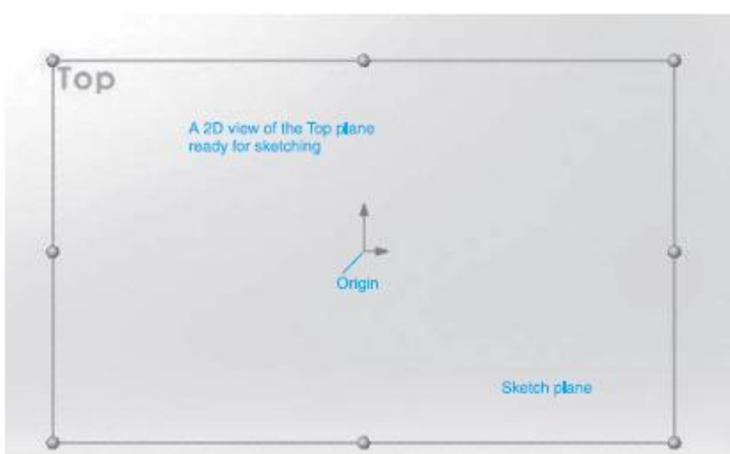
3 Define the plane on which the part will be created.

4 Click the **Top plane** option in the **Feature manager** box on the left side of the drawing screen.

See Figure 1-4. An outline of the **Top** plane will appear using the **Trimetric** orientation, that is, a type of 3D orientation.

5 Click the **Sketch** tool





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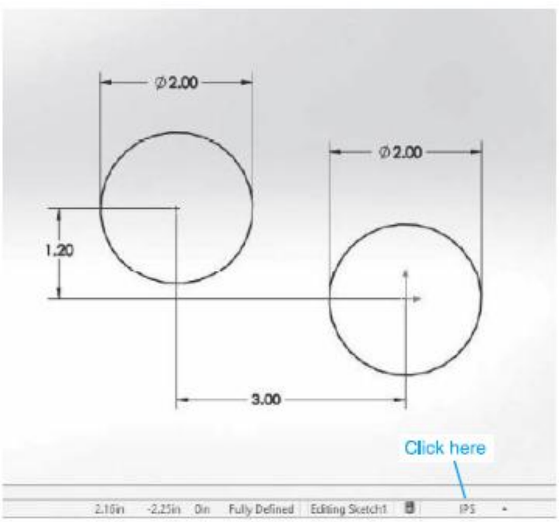
Units

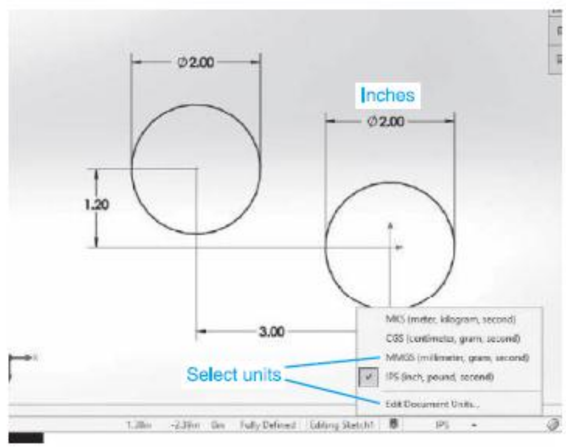
To Change Units

1. Click the **IPS** callout at the bottom of the screen.
2. Select the desired units.

In this example millimeters (**MMGS**) was selected. MMGS stands for millimeter, gram, and second.

The letters **MMGS** will appear at the bottom of the screen, indicating that the drawing units are now millimeters.





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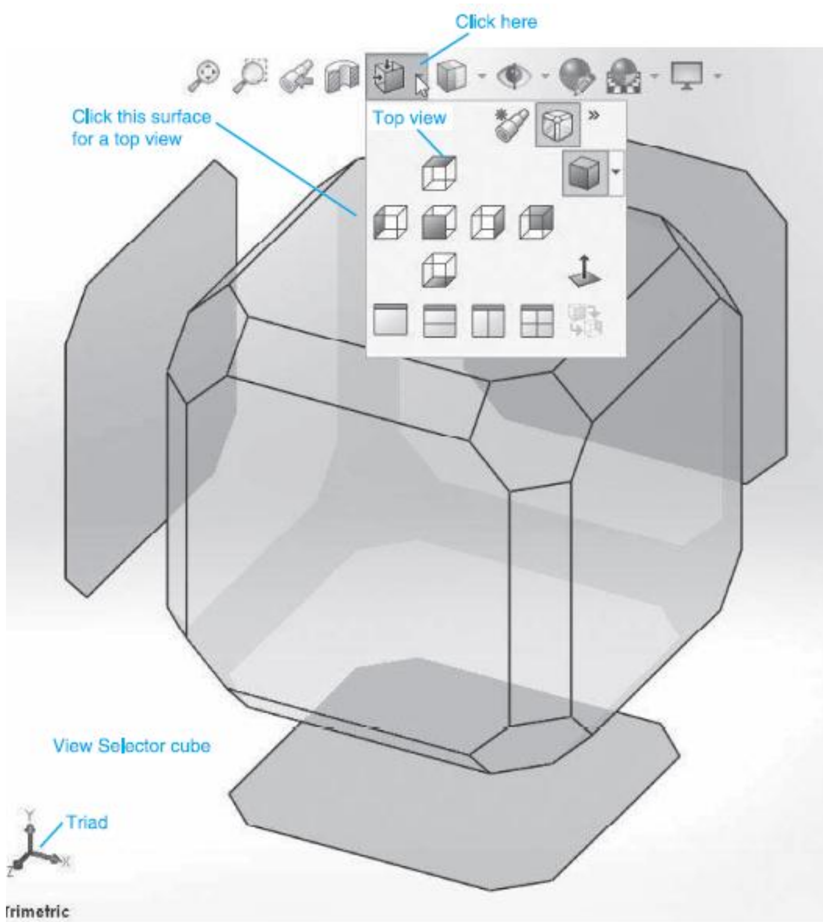
Orientation

To Return to the Top View Orientation – View Selector

1 Click the **View Orientation** tool at the top of the drawing screen.

The **View Selector** cube will appear. See Figure 1-22. If the cube does not appear, click the **View Selector** icon on the **View Orientation** tool panel.



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To Return to the Top View Orientation – Top View

1. Click the **View Orientation** tool at the top of the drawing screen.
2. Click the **Top view** tool.

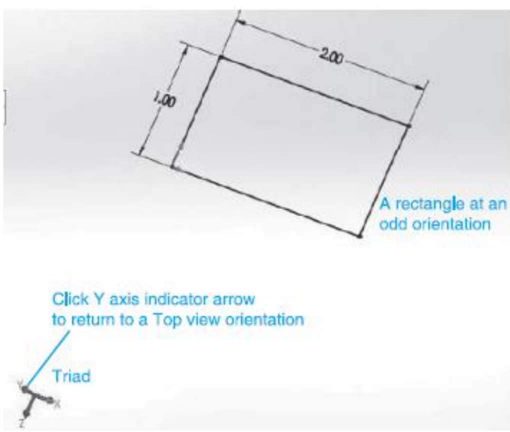
To Return to the Top View Orientation – Orientation Triad

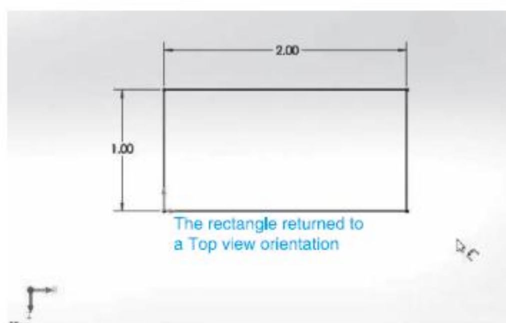
The **Orientation Triad** is located in the lower left corner of the drawing screen. See Figure 1-22.

SolidWorks defines the **Top** plane as the XZ plane. The Y axis is 90° to the XZ plane, so a view taken along the Y axis will generate a top view of the plane.

1. Move the cursor onto the **Orientation Triad**.
2. Click the Y axis indicator arrow.

The triad will reorientate to the **Top view** orientation.





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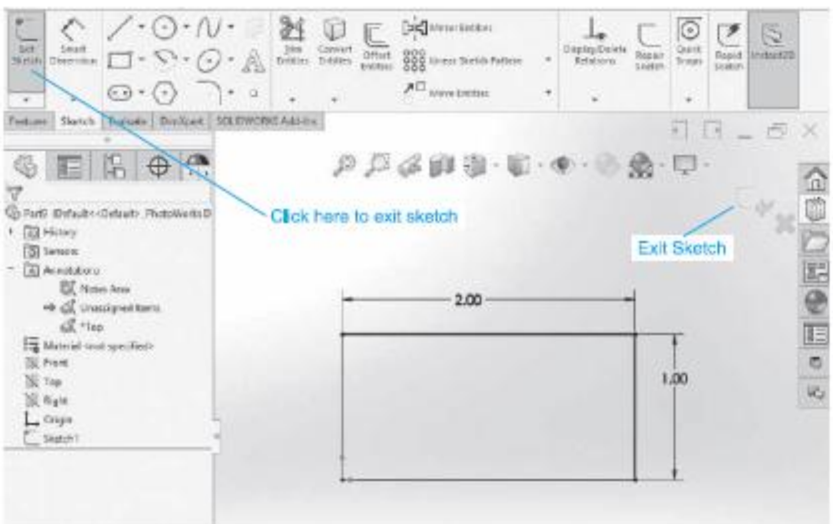
To Exit the Sketch Mode

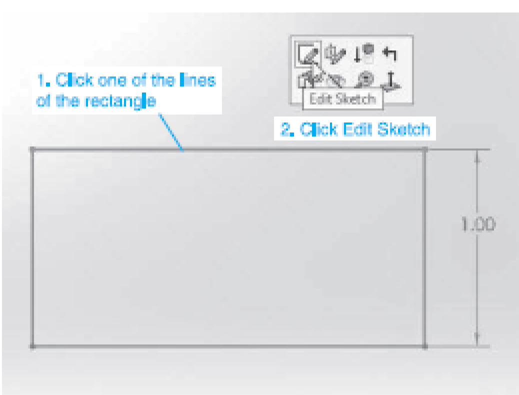
1. Click the **Exit Sketch** icon on the **Sketch** panel or click the **Exit Sketch** icon that appears in the upper right corner of the drawing screen.



To Reenter the Sketch Mode

Once you have created a sketch and left the **Sketch** mode, you can return to work on the sketch by using the **Edit Sketch** mode.

1. Click an entity in the existing sketch.
2. Click the **Edit Sketch** tool.



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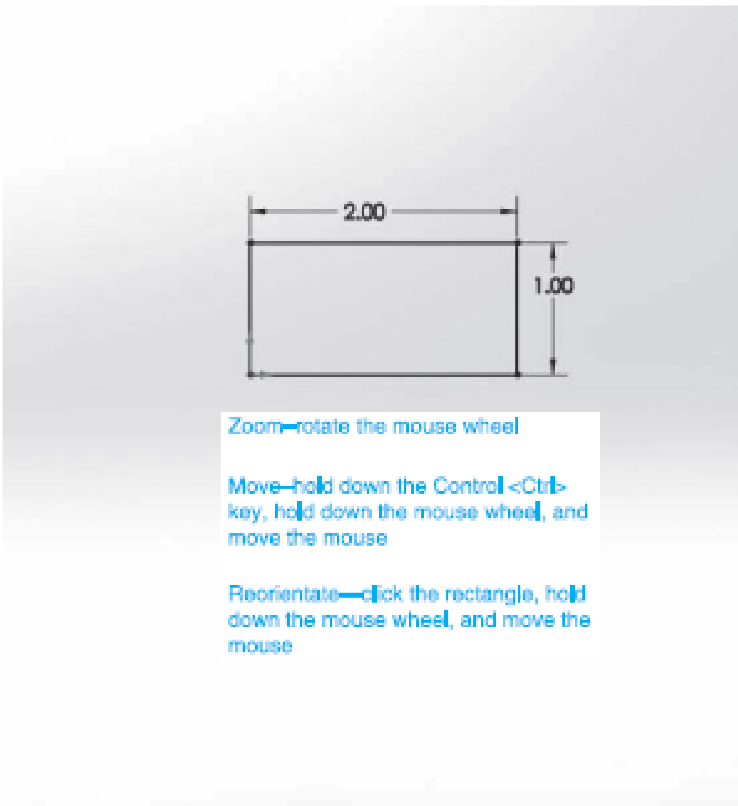
1-7 Moving Around the Drawing Screen

SolidWorks includes several methods that allow you to move entities about the screen. Entities can be moved, zoomed, or reorientated.
shows the line created in the previous section.



To Zoom the Line

1 Rotate the mouse wheel.

The line will increase and decrease in length.

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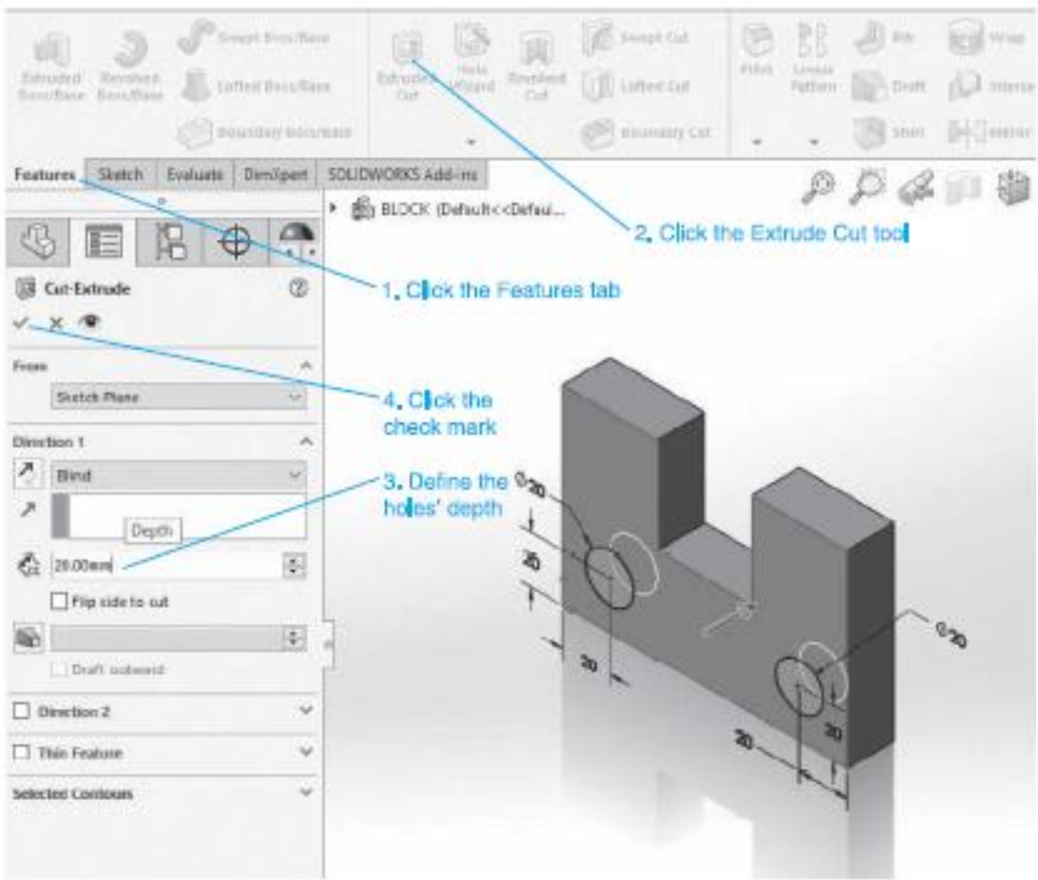
To Create a Hole



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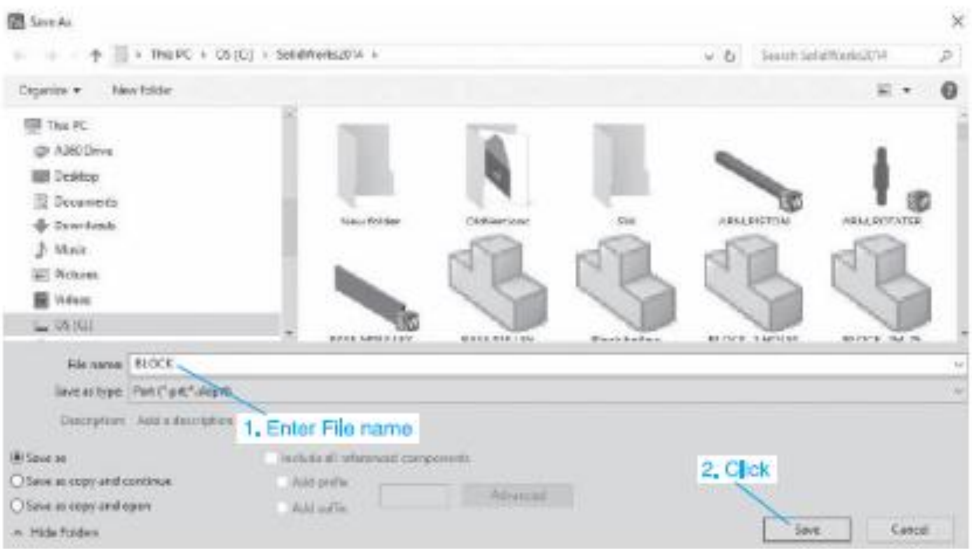
To Save a Document

1. Click the **File** tab at the top of the drawing screen.

   A drop-down menu will appear.

2. Click the **Save As** tool.

   The **Save As** dialog box will appear. See Figure 1-32.



3. Enter the **File name**.

   In this example the name **BLOCK** was used.

4. Click the **Save** box.

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