Create a new AutoCAD Engineering drawing. Save As “lastname – intro” Below is a list of commands will you will use in this intro.

Command	Keystroke	Icon	Location	Result
Line	**Line / L**		Home > Line	Draw a straight line segment from one point to the next
Circle	**Circle / C**		Home> Circle > Center, Radius	Draws a circle based on a center point and radius.
Erase	**Erase / E**		Modify > Erase	Erases an object.
Arc	**Arc / E**		Draw > Arc > Center, Start, End	Draws an arc based on a center point and 2 endpoints
Undo	**U / CTRL+Z**		Quick Access Toolbar> Undo	Undoes the last command.

Start the **LINE** command (as explained in the table above) and draw a line from **1,2** to **3,2** to **3,4** to **1,4** Press enter after each point. For the last line, you can either type in **1,2** or **C** to close the line back to the first point you entered. You have just drawn a 2" square using **absolute co-ordinates**. Your command history (F2 key) should look like this:

```
Specify next point or [Close/Undo]: <ENTER>
Command: L LINE Specify first point: 1,2
Specify next point or [Undo]: 3,2
Specify next point or [Undo]: 3,4
Specify next point or [Close/Undo]: 1,4
Specify next point or [Close/Undo]: 1,2
Specify next point or [Close/Undo]: <ENTER>
```

If you make a mistake, you can use the **undo** icon,  press **U** or press **CTRL+Z**.

Next draw a similar box using **relative co-ordinates**. Start the **LINE** command and begin at point **4.5,2**. From there draw a line two units to the right by typing **@2,0** (this means 2 units in the X direction, 0 units in the Y direction based on the last point you entered). Next type **@0,2** then **@-2,0** then **@0,-2** to finish the box.

Draw a third box using **polar co-ordinate** input. Start the **LINE** command and begin at point **8,2** then enter. Type **@1<45** to draw the first line. Next enter **@1<135** then

@1<225 then **@1<315** (or **C** to close). What you have just done is drawn a line 1 unit long at 45°, then another at 135° and so on. Do the angles you entered make sense to you? If not, review it.

Start the **CIRCLE** command and add a circle that has a center point at **7,6** with a radius of **.75** (Watch the command line for instructions).

The last thing to draw is the arc (curved line) that you see in the bottom left square. Start the **ARC** command and select the Center option by pressing the "C" key.

Now you can enter the center point which will be **1,2**. Then you'll be prompted for the start point, enter **3.2** and finally the end point **1,4**.

```
Command: A <enter> ARC
Specify start point of arc or [Center]: C
Specify center point of arc: 1,2
Specify start point of arc: 3,2

Specify end point of arc or [Angle/chord Length]: 1,4
```

There are many different ways to draw an arc. Try another method in the other square. Also, you'll learn later that you can draw a circle and then trim it to leave an arc.

To finish the drawing, try putting a 10"x7" border around the page starting at **0,0** using the any of the methods shown above (relative, absolute or polar).