North Point Exercise

by David Watson

Introduction

This exercise is designed to demonstrate the use of some of the most commonly used Osnaps and how they can be used in conjunction with the From Osnap. The exercise uses some of the basic drawing commands covered in the Drawing Objects tutorial and some of the ideas discussed in the Using Co-ordinates tutorial. If you are unsure about any part of this exercise, have a look at these tutorials and make sure you have worked through the Object Snap tutorial.

To Draw the Triangle

Command: **LINE**

Specify first point: (pick a point in the middle of the drwaing area)

Specify next point or [Undo]: **@15,0**

Specify next point or [Undo]: **FROM**

Base point: **MID**

of (pick a point near the middle of the line)

<Offset>: **@0,75**

Specify next point or [Undo]: **C** (to close)

To Draw the Vertical Line

Command: **LINE**

Specify first point: **MID**

of (pick point near the middle of the triangle base)

Specify next point or [Undo]: **@0,-100**

Specify next point or [Undo]: ↵

To Draw the Horizontal Line

Command: **LINE**

Specify first point: **FROM**

Base point: **MID**

of (pick a point near the middle of the vertical line)

<Offset>: **@-25,0**

Specify next point or [Undo]: **@50,0**

Specify next point or [Undo]: ↵

To Draw the Circle

Command: **CIRCLE**

Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: **INT**

of (pick a point near the intersection of the two lines)

Specify radius of circle or [Diameter]: **12.5**

To Trim the Lines within the Circle

Command: TRIM

Current settings: Projection=UCS Edge=None

Select cutting edges ...

Select objects: (pick the circle on its circumference)

Select objects: ↵

Select object to trim or [Project/Edge/Undo]: (pick one of the lines within the circle)

Select object to trim or [Project/Edge/Undo]: (pick the other line within the circle)

Select object to trim or [Project/Edge/Undo]: ↵

To Draw the Text

Command: **DTEXT**

Current text style: "Standard" Text height: 2.5000

Specify start point of text or [Justify/Style]: **J**

Enter an option [Align/Fit/Center/Middle/Right/TL/TC/TR/ML/MC/MR/BL/BC/BR]: **M**

Specify middle point of text: **CEN**

of (pick a point on the circumference of the circle)

Specify height <2.5000>: **15**

Specify rotation angle of text <0>: **0**

Enter text: **N**

Enter text: ↵

Command:

Your north point should now look like the one in the illustration above. For more practice, try designing a different north point and then draw it using similar techniques.

If you are still not sure about the use of Object Snaps, perhaps you would like to return to the Object Snap tutorial and have another look at it.