

## Drawing with Object Snaps - Endpoint

This exercise will teach you how to use the **Endpoint** object snap in RealCAD.

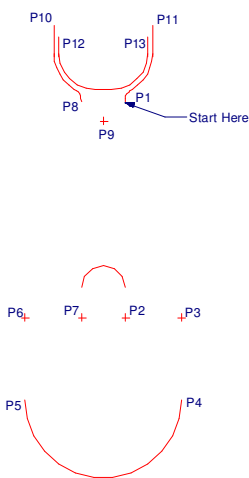
All points, lines, arcs and curves have end points that can be snapped to.

If RealCAD is already running, select **File, Open** on the menu and locate the **Training** folder. Open the file called "**Drawing\_with\_Object\_Snaps-Endpoint-exercise.cad**".

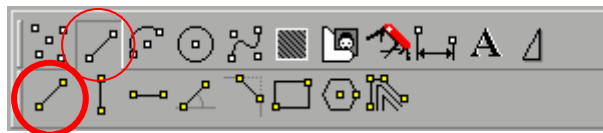
If RealCAD is not running, start it and select **Open Existing Drawing** from the Startup menu. Locate the **Training** folder and open the file called "**Drawing\_with\_Object\_Snaps-Endpoint-exercise.cad**".

Remember, if you make a mistake at any stage, you can always **Undo** it. Refer back to the **Undo and Redo** video if you need to refresh your memory.

**Step 1:** If necessary, **maximise** the view of the drawing so it fills your viewing area and use the **Zoom** function to make the image fill your view.



**Step 2:** Select the **Insert Line** command from the icon menu.



Now look at the prompt! It will ask you to 'Select the start of the line'.

In this exercise we are going to explore how to **snap** onto some existing geometry as we draw. This makes our drawing very accurate.

**TIP:** Remember to use the zoom tools to assist you to see the drawing more easily and find the endpoints.

**Step 3:** Move your cursor to where it says **Start Here** at position P1 in the drawing.

Notice that your cursor changes as you get near the end of the arc. A small **SQUARE** should appear, as shown below. This indicates you have found the **end point** of the arc.



**Step 4:** Whilst the **square** is visible, click (and then RELEASE) your LMB to **snap** to that position. Then check the prompt!

**Step 5:** Move your cursor to the point at position P2 until the square appears on your cursor. Again click and release your LMB to snap to the point. Repeat for positions P3 and P4.

**Step 6:** To stop drawing the current sequence of lines, click your **RMB** once. Then check the prompt. Notice it is ready to begin drawing a new line.

**Step 7:** Move your cursor to P5 and **snap** the start of your new line. Continue drawing lines by **snapping** to points P6, P7, P8, P9 and then finish back at P1.

**Step 7:** Click your **RMB** once to stop drawing more lines.

**Step 8:** **Snap** to points P10 and P11 to draw another line.

**Step 9:** Click your **RMB** once to stop drawing lines.

**Step 10:** **Snap** to points P12 and P13 to draw another line.

**Step 11:** Click your **RMB** twice to stop the **Insert Line** command completely.

And there's your completed spade! ☺

If you want to save your drawing as it is, select **File → Save** from the menu; it will be saved under its original name. If you do not want to save your drawing, select **File → New** from the menu and select **No** when asked if you want to save it.

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That completes this exercise.

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