

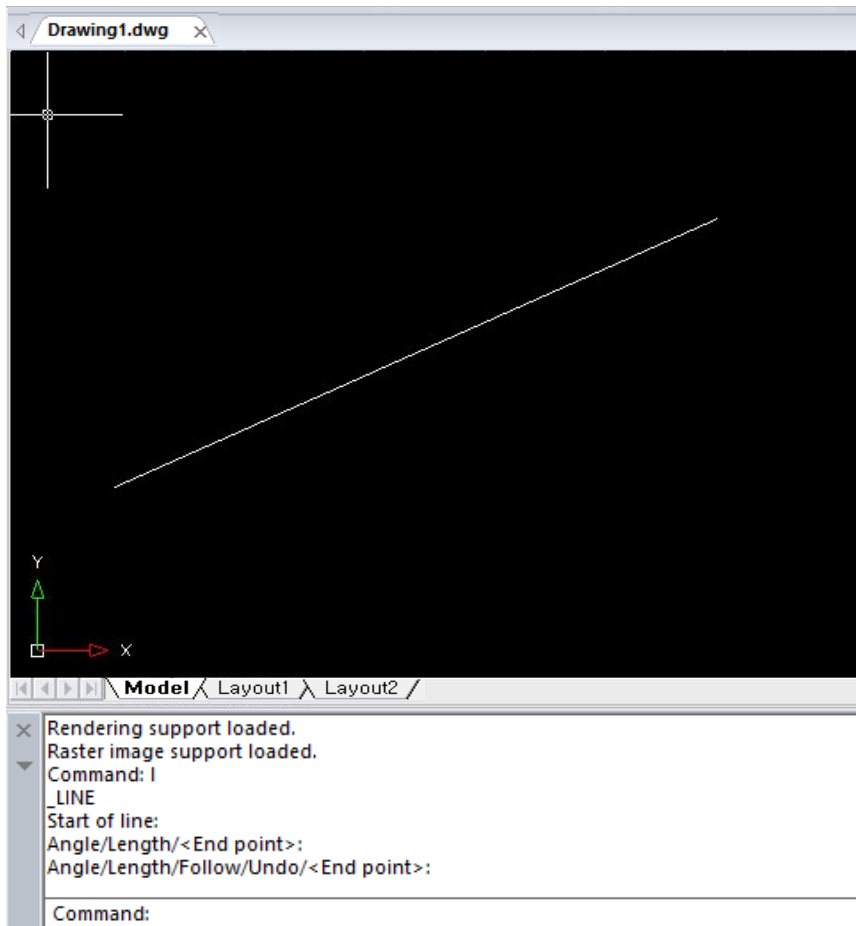
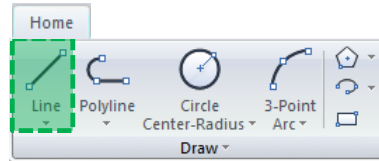
LINE

CADian 2020



Line

command : l (line)



Execution Process

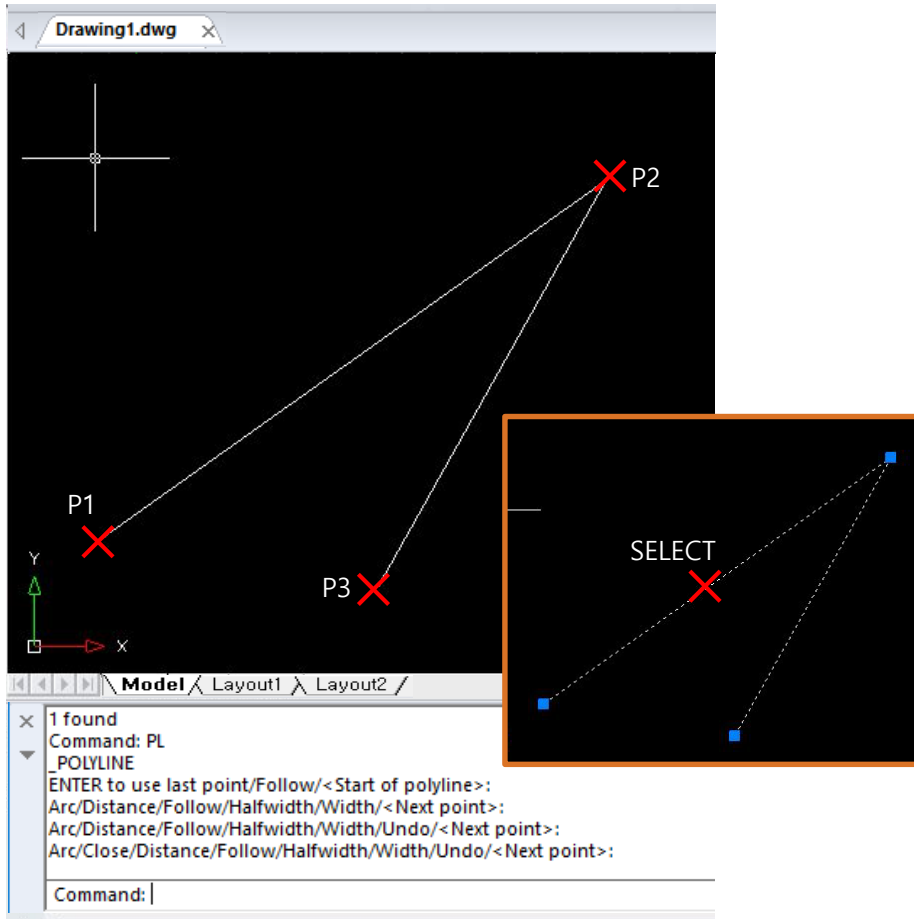
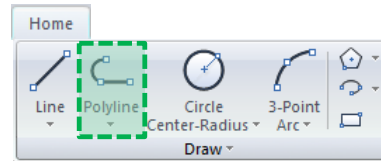
1. "command : " l(L) input and SPACE
2. "Start of line : " P1 CLICK
3. "~<End Point> : " P2 CLICK
4. "~< End Point > : " ENTER or SPACE BAR

NOTE

- In CAD program, enter is used as SPACE BAR
- Using SPACE BAR increases work efficiency.

PolyLine

command : pl (polyline)



Execution Process

1. "command : " pl input and SPACE
2. "~<Start of polyline> : " P1 CLICK
3. "~<Next point> : " P2 CLICK
4. "~< Next point > : " P3 CLICK
5. "~< Next point > : " SPACE BAR

NOTE

- Polylines are objects with joined lines.
- Selecting only one line is all selected.
- Polyline execution is the same as line drawing execution.

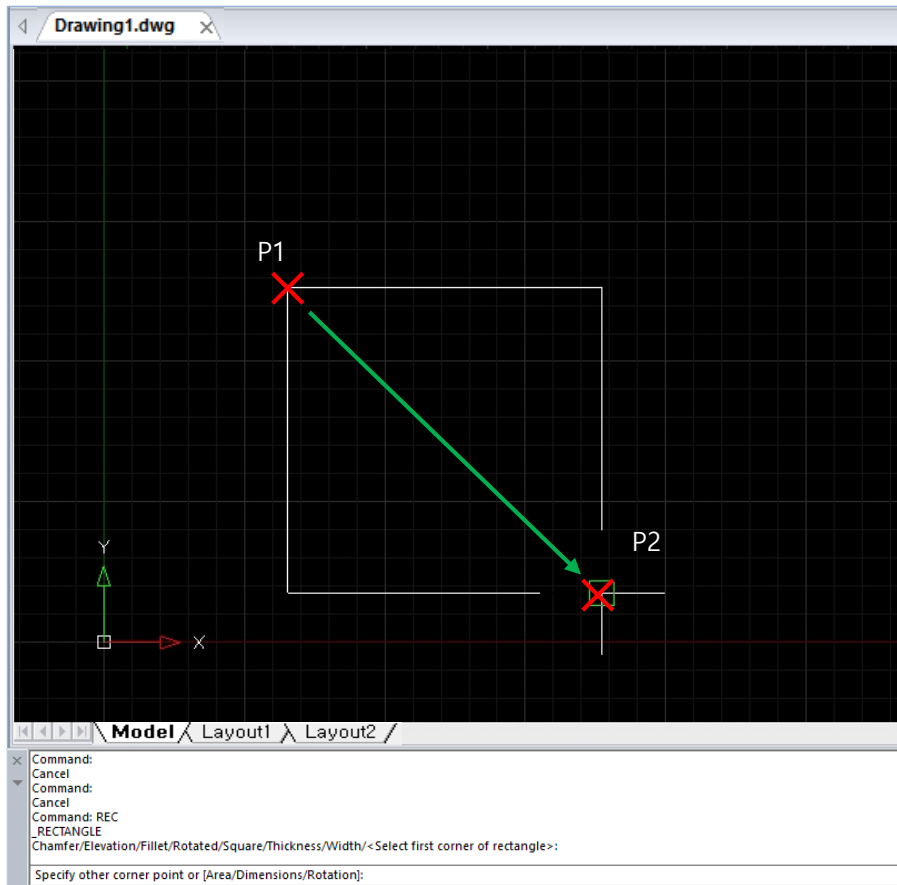
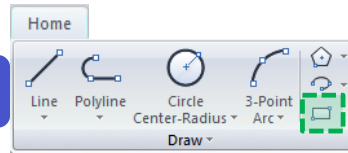
FIGURE

CADian 2020



Rectangle -1

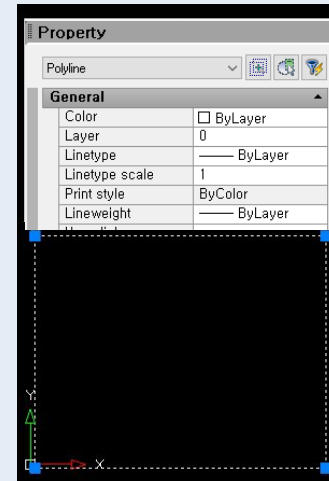
command : rec (Rectangle)



Execution Process

1. "command : " rec input and SPACE
2. "~<Select first corner of rectangle> : " P1 CLICK
3. "[Area(A)/Dimension(D)/Rotate(R)]: " P2 CLICK

NOTE

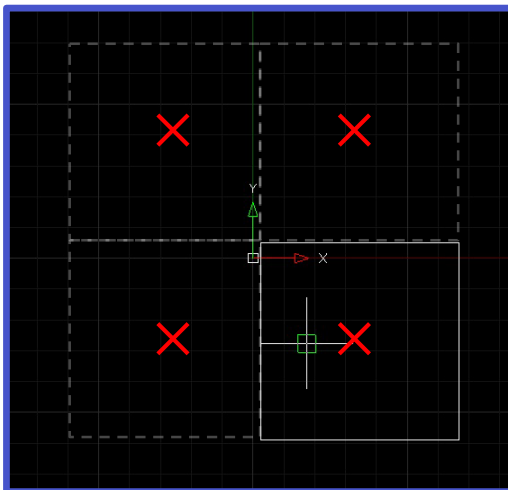
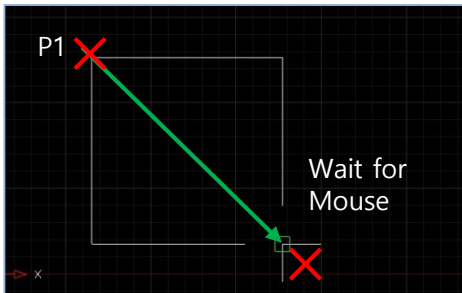


- Because the rectangle consists of a joined line. When you view the Properties panel, it is recognized as a polyline.
- Because they are joined, you have to explode each to work with lines.

Rectangle -2

Draw a rectangle by entering dimensions

```
Command: rec
_RECTANGLE
Chamfer/Elevation/Fillet/Rotated/Square/Thickness/Width/<Select first corner of rectangle>:
Specify other corner point or [Area/Dimensions/Rotation]: d
Enter rectangle length <10>: 100
Enter rectangle width <10>: 80
Specify other corner point or [Area/Dimensions/Rotation]:
```



When you move the mouse, the rectangle moves along with the mouse.

You must click a location to complete the execution of the rectangle.

Execution Process

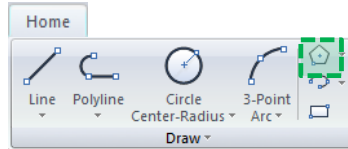
1. "command : " **rec** input and SPACE
2. "~<select first corner of rectangle> : " **P1** CLICK
3. "~[Area(A)/Dimension(D)/Rotate(R)]: " **D** input and SPACE
4. "Enter rectangle length <10>: " **100** enter and space
5. "Enter rectangle width <10>: " **80** enter and space
6. "~[Area(A)/Dimension(D)/Rotate(R)]: " **RED** POINT CLICK

NOTE

- In step 3, @Horizontal, vertical enter and space is the same.
- Click on one of the 4 RED POINTs in step 6.
- Horizontal : **length** / Vertical : **width**
- If you do not click RED POINT in step 6, the creation of the rectangle is canceled.

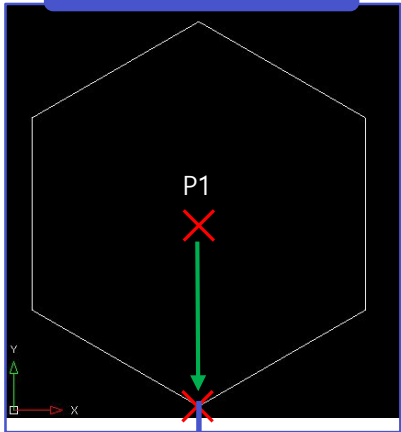
Polygon

command : pol (Polygon)

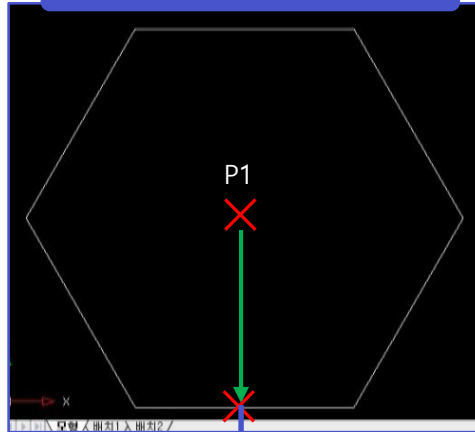


```
Command: pol
_POLYGON
Polygon: Multiple/Width of line/<Number of sides> <4>: 6
Specify center of polygon or [Edge]:
Enter an option [Inscribed in circle/Circumscribed about circle] <C>: c
Specify radius of circle: 100
```

Inscribed in circle



Circumscribed in circle



Execution Process

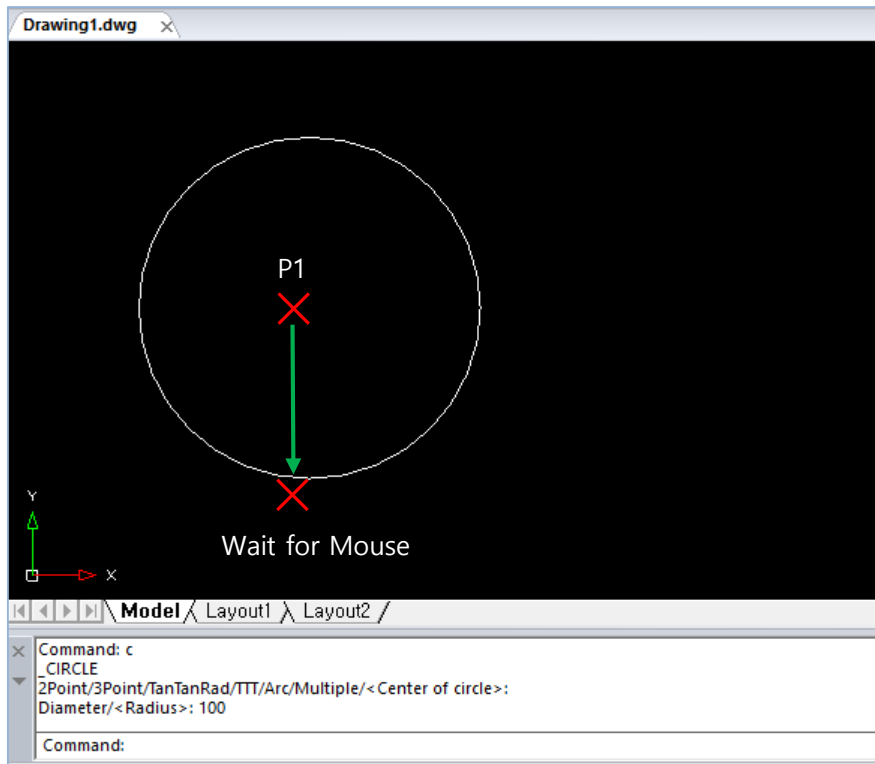
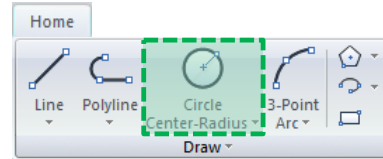
1. "command : " **pol** input and SPACE
2. "~<Number of sides> : " **6** input and SPACE
3. "~polygon or [Edge[E]]: " **P1** CLICK
4. "~ [Inscribed in circle(I)/
Circumscribed in circle(C)] <C>:" **C** SPACE
5. "radius of circle: " **100** input and SPACE

NOTE

- In step 4, you can select the
Inscribed in circle / Circumscribed in circle.
- Inscribed in circle / Circumscribed in circle
 1. Inscribed
 2. Circumscribed
- In step 5, you can specify the mouse
without entering a value.

Circle

command : c (circle)

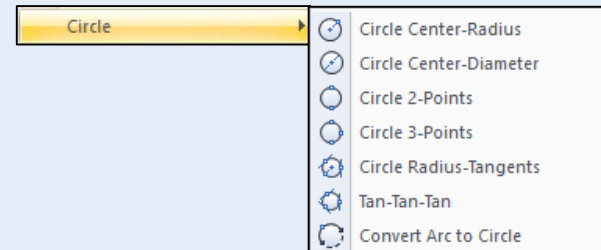


Execution Process

1. "command : " c input and space
2. "~<Center of circle> : " P1 CLICK
3. 3. "~Diameter(D)/<Radius>: " 100 input and SPACE

NOTE

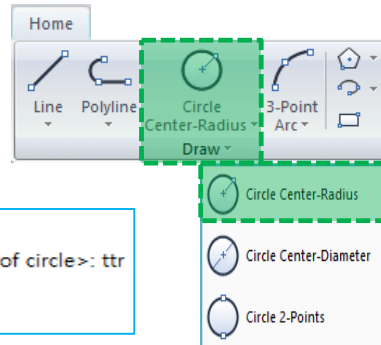
- In step 3, you can select the Diameter / Radius in circle.
- In step 3, you can specify the mouse without entering a value.
- Circle type



Circle -2

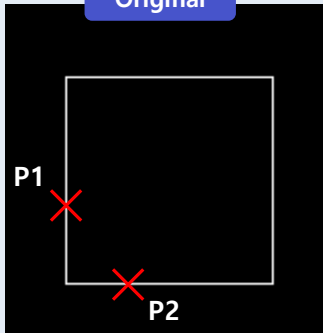
command : c (circle)

```
Command: c
_CIRCLE
2Point/3Point/TanTanRad/TTT/Arc/Multiple/<Center of circle>: ttr
Select first tangent point:
Select second tangent point:
Radius of circle: 200
```

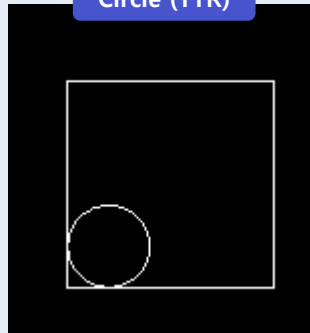


Circle(Tan,Tan,Rad) Basic principle

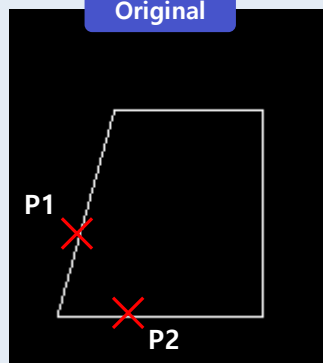
Original



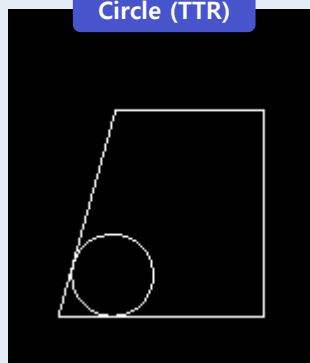
Circle (TTR)



Original



Circle (TTR)

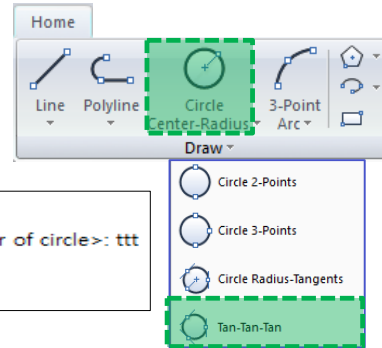


Execution Process

- *. [0. circle.dwg] File OPEN
- 1. "command : " c input and space
- 2. "~<Center of circle> : " ttr input and space
- 3. Select first tangent point: P1 CLICK
- 4. Select second tangent point: : " P2 CLICK
- 5. Radius of circle <> : : " 20 input and space 20

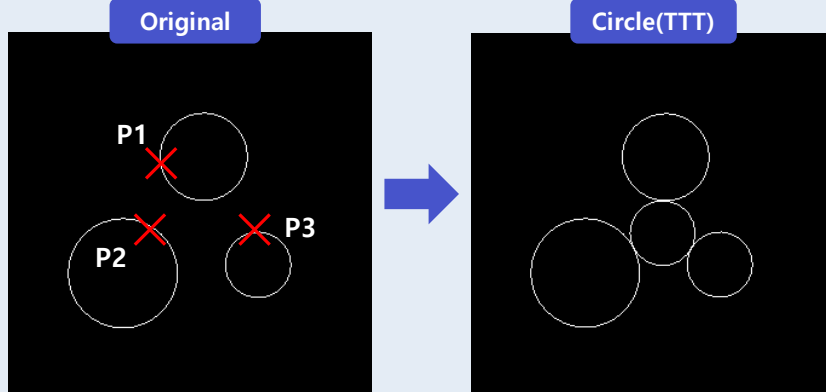
Circle -3

command : c (circle)



```
Command: C
_CIRCLE
2Point/3Point/TanTanRad/TTT/Arc/Multiple/<Center of circle>: ttt
First point on circle:
Second point:
Third point:
```

Circle(Tan,Tan,Tan) Basic principle



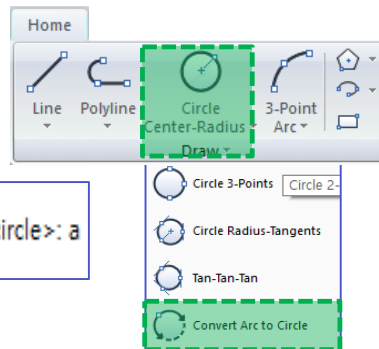
Execution Process

- *. [0. circle.dwg] File OPEN
- 1. "command : " c input and space
- 2. "~<Center of circle> : " ttt input and space
- 3. Select first tangent point: P1 CLICK
- 4. Select second tangent point: : " P2 CLICK
- 5. Select third tangent point: : " P3 CLICK

Circle -4

command : c (circle)

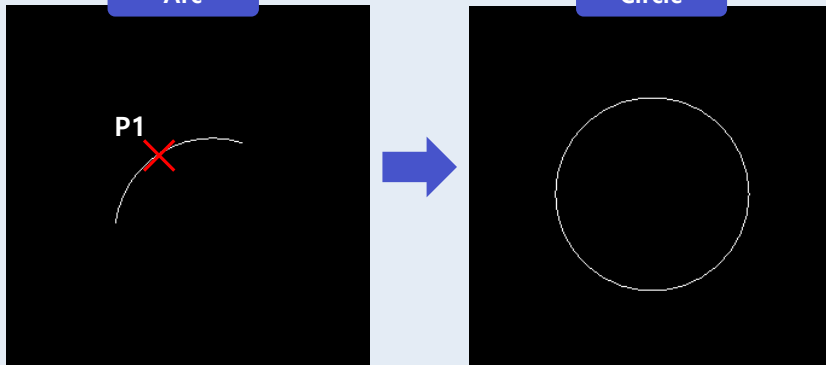
_CIRCLE
2Point/3Point/TanTanRad/TTT/Arc/Multiple/<Center of circle>: a
Select arc to convert to circle:



Circle(Arc → Circle) Basic principle

Arc

Circle



Execution Process

*. [0. circle.dwg] File OPEN

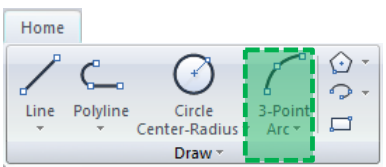
1. "command : " c input and space

2. "~<Center of circle> : " a input and space

3. "Select arc to convert to circle : " P1 클릭

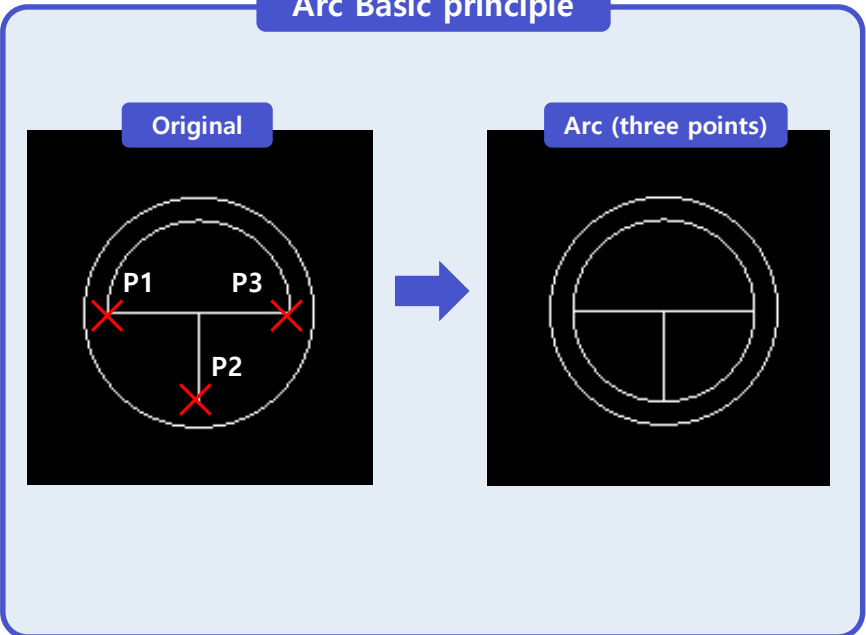
Arc

command : a (Arc)



```
_ARC
ENTER to use last point/Center/Follow/<Start of arc>:
Angle/Center/Direction/End/Radius/<Second point>:
End point:
```

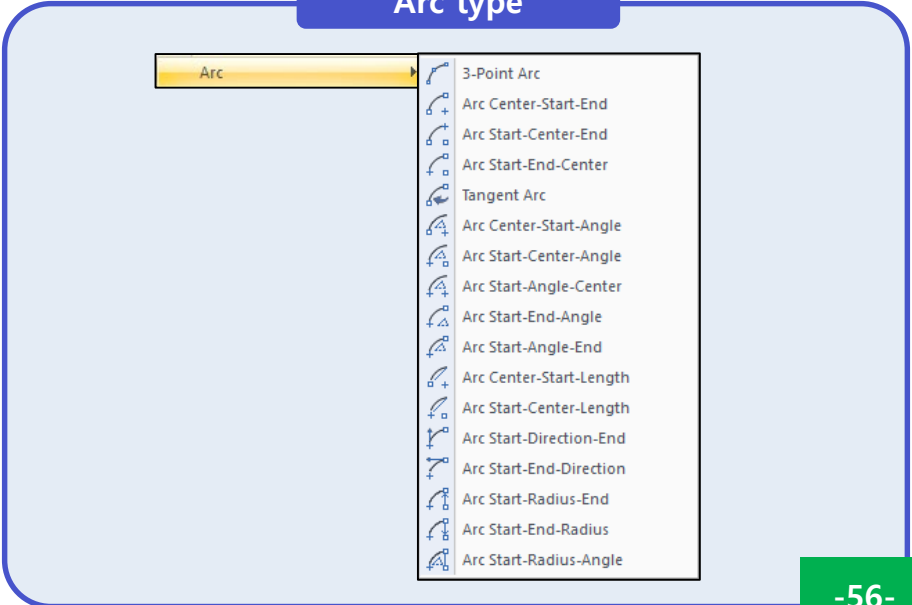
Arc Basic principle



Execution Process

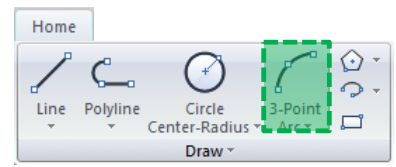
- *. Arc.dwg File OPEN
- 1. "command : "a input and SPACE
- 2. "~<Start of arc> : " P1 CLICK
- 3. "~<Second point>:" P2 CLICK
- 4. "End point:" P3 CLICK

Arc type



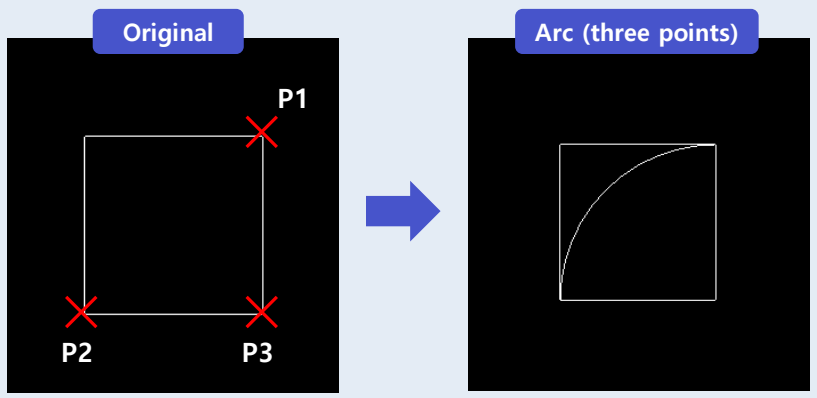
Arc -2

command : a (Arc)



_ARC
 ENTER to use last point/Center/Follow/<Start of arc>:
 Angle/Center/Direction/End/Radius/<Second point>: e
 End point:
 End point of arc (hold Ctrl to switch direction) or [Angle/Direction/Radius]:

Arc (three points) Basic principle



기본 실행 과정

- *. Arc.dwg File OPEN
- 1. "command : "a input and SPACE
- 2. "~<Start of arc> : " P1 CLICK
- 3. "~<Second point>: " e CLICK
- 4. "End point : " P2 CLICK
- 5. "~ [Angle/Direction/Radius] : " P3 CLICK

NOTE

- If you select the **radius(R)** in step 4, you can enter the radius
- To draw at a time, you have to draw in a counterclockwise direction