

Drawing arc II

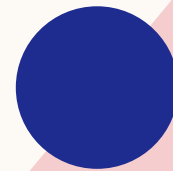
LECTURE SIX

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Objectives

Draw arc

Arc option



- Arc options
 - **The start-center- angle.**
 - In AutoCAD, You can draw arc by entering coordinate of the start point and center point and angle.
 - Positive angle means, The arc is drawing in a counterclockwise direction from center and start point with the specified angle.
 - Negative angle means, The arc is drawing in a clockwise direction from center and start point with the specified angle.

يمكن رسم القوس عن طريق ادخال احداثيات نقطة البداية ونقطة المركز ويكون رسم القوس عكس اتجاه عقارب الساعة عند ادخال قيمة الزاوية موجبة وباتجاه عقارب الساعة عندما تكون قيمة الزاوية سالبة

Draw arc with start point(4,2) , center pint (2,2) and included angle 60?

Soluion

Command: **ARC** enter

Specify start point of arc or [Center]: **4,2** enter

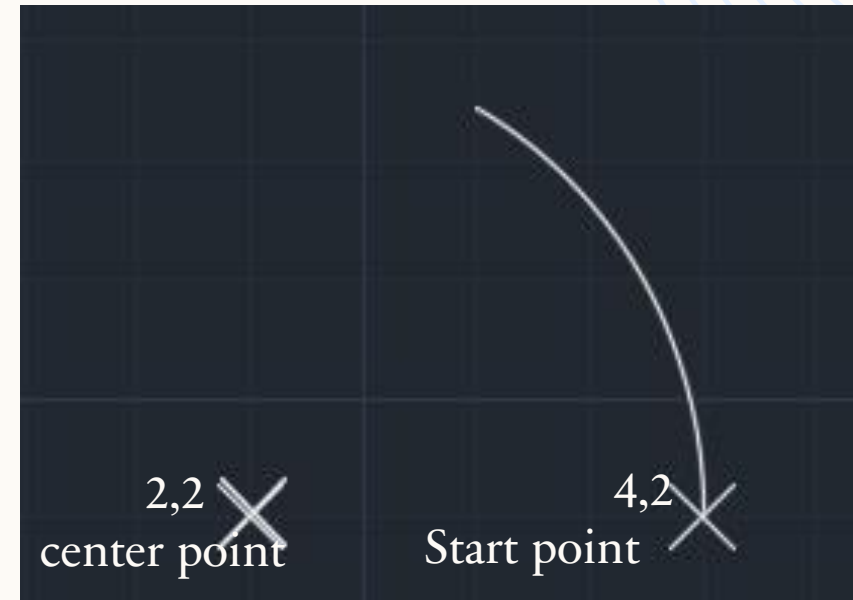
Specify second point of arc or [Center/End]: **c** enter

Specify center point of arc: **2,2** enter

Specify end point of arc (hold Ctrl to switch direction) or [Angle/chord

Length]: **a** enter

Specify included angle (hold Ctrl to switch direction): **60** enter



Arc drawing by start-center-angle

Draw arc with start point(4,2) , center pint (2,2) and included angle -60?

5

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Command: **ARC** enter

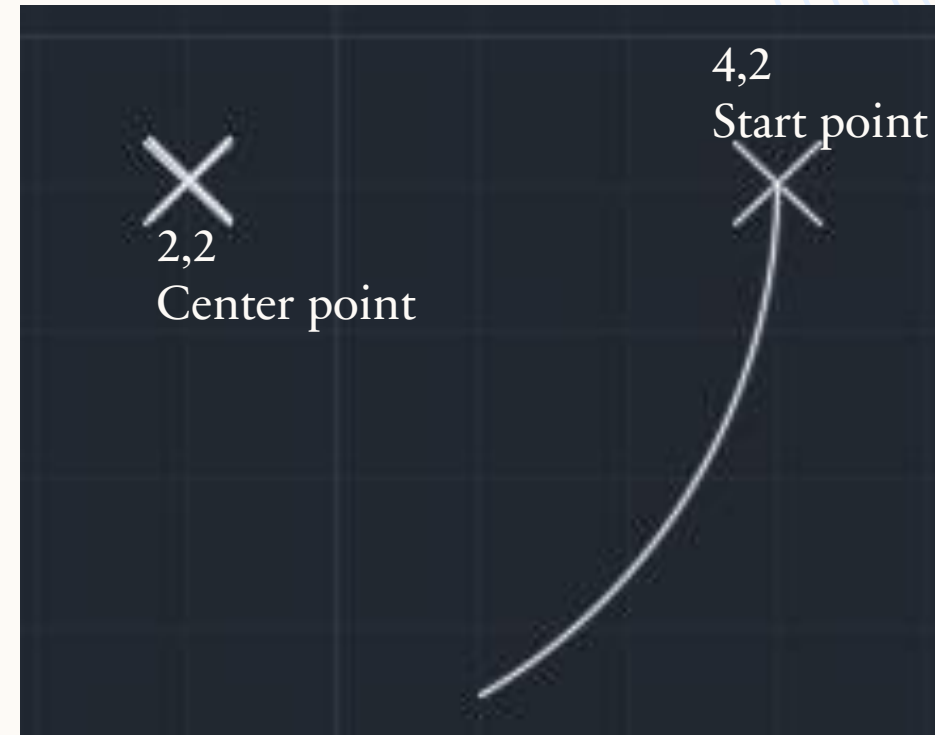
Specify start point of arc or [Center]: **4,2**
enter

Specify second point of arc or
[Center/End]: **c** enter

Specify center point of arc: **2,2** enter

Specify end point of arc (hold Ctrl to
switch direction) or [Angle/chord Length]:
a enter

Specify included angle (hold Ctrl to switch
direction): **-60** enter



Arc drawing by start-center-angle

- Arc options

- The start-center- length



- In AutoCAD, You can draw arc by entering coordinate of the start point , center point and the chord length (chord length is the straight length from start point to end point) . The arc is drawing in a counterclockwise direction from start point.

يمكن رسم القوس عن طريق ادخال احداثيات نقطة البداية ونقطة المركز وطول الذي يمثل الخط المستقيم من نقطة البداية الى نقطة النهاية كما في الشكل ادناه ويكون رسم القوس عكس اتجاه عقارب الساعة (القيمة الموجبة) .

Draw arc with start point(4,2) , center pint (2,2) and chord length 3?

Solution

Command: **ARC** enter

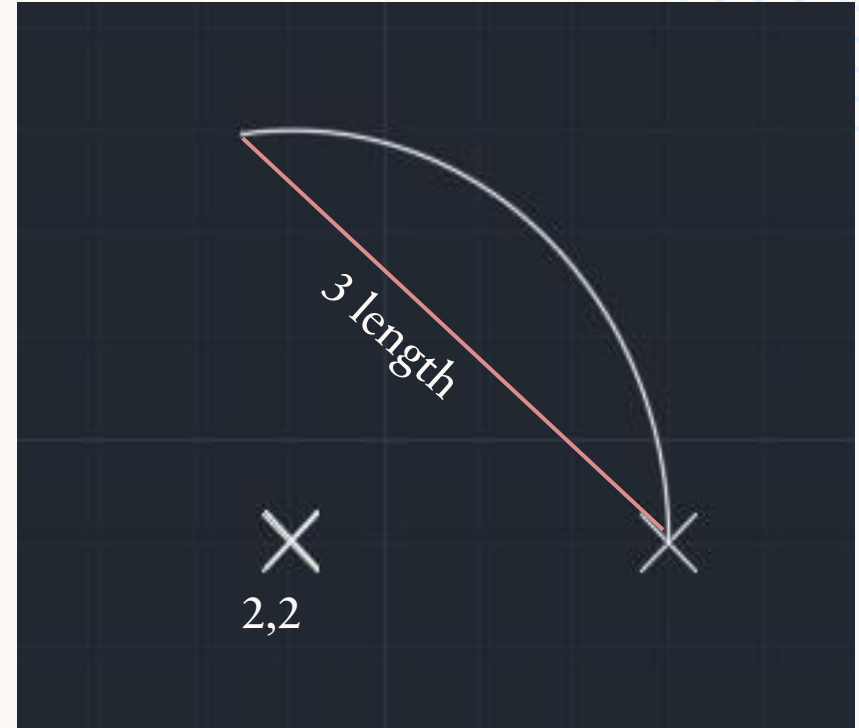
Specify start point of arc or [Center]: **4,2** enter

Specify second point of arc or [Center/End]: **c** enter

Specify center point of arc: **2,2** enter

Specify end point of arc (hold Ctrl to switch direction) or [Angle/chord Length]: **l** enter

Specify length of chord (hold Ctrl to switch direction): **3** enter



Arc drawing by start-center-length

Draw arc with start point(4,2) , center pint (2,2) and chord length -3?

solution

Command: **ARC enter**

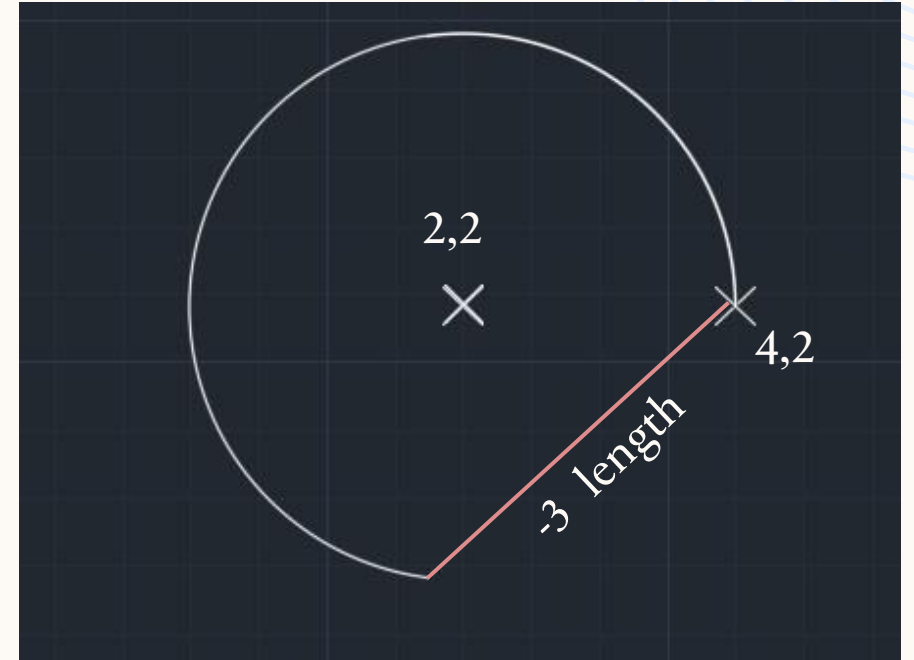
Specify start point of arc or [Center]: **4,2 enter**

Specify second point of arc or [Center/End]: **c enter**

Specify center point of arc: **2,2 enter**

Specify end point of arc (hold Ctrl to switch direction) or [Angle/chord Length]: **l enter**

Specify length of chord (hold Ctrl to switch direction): **-3 enter**



Arc drawing by start-center-length

- Draw the figure below by using different options?

Command: **L** enter

Specify first point: **5,15** enter

Specify next point or [Undo]: **5,5** enter

Specify next point or [Undo]: **15,5** enter

Specify next point or [Close/Undo]: **enter**

Command: **A** enter

Specify start point of arc or [Center]: **15,5** enter

Specify second point of arc or [Center/End]: **c** enter

Specify center point of arc: **15,6** enter

Specify end point of arc (hold Ctrl to switch direction) or [Angle/chord Length]: **a** enter

Specify included angle (hold Ctrl to switch direction): **180** enter

Command: **L** enter

Specify first point: **15,7** enter

Specify next point or [Undo]: **10,7** enter

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

Command: **A** enter

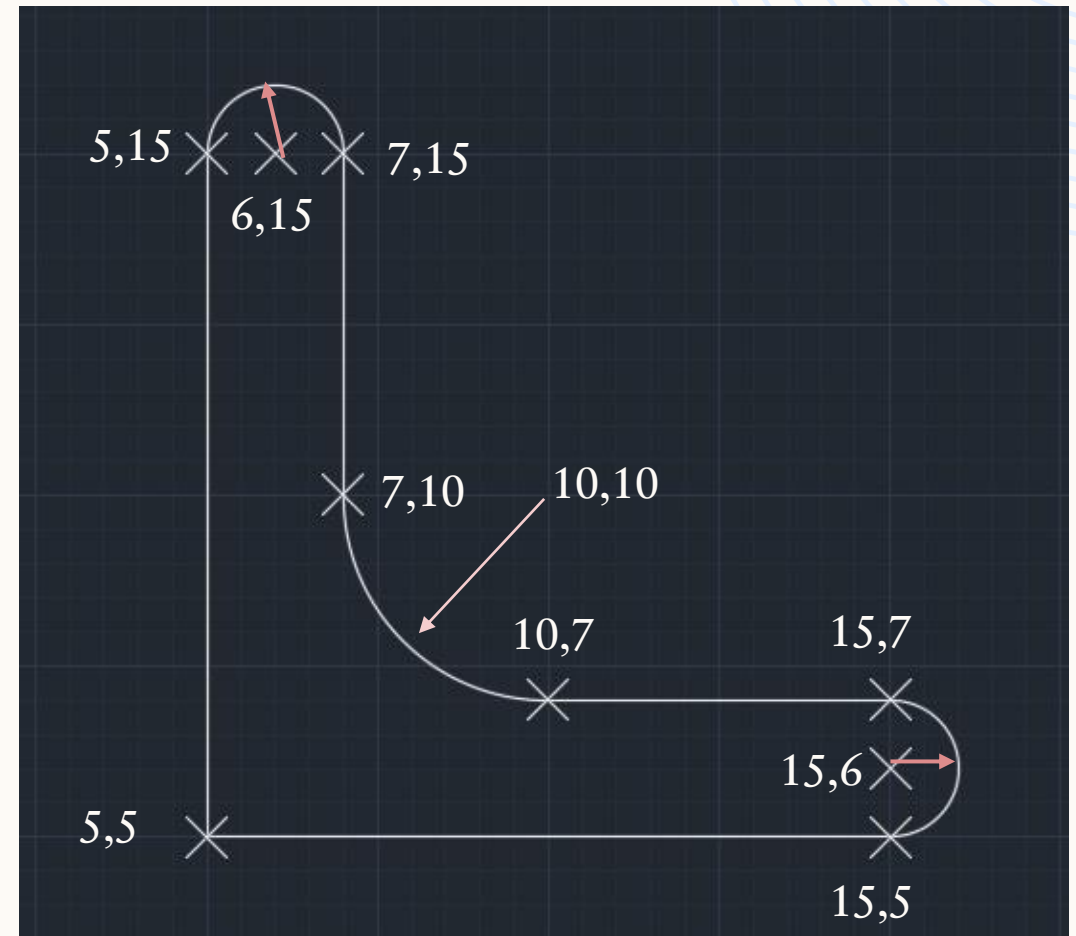
Specify start point of arc or [Center]: **10,7** enter

Specify second point of arc or [Center/End]: **c** enter

Specify center point of arc: **10,10** enter

Specify end point of arc (hold Ctrl to switch direction) or [Angle/chord Length]: **a** enter

Specify included angle (hold Ctrl to switch direction): **-90** enter



Arc drawing by start-center-length

Command: **L** enter

Specify first point: **7,10** enter

Specify next point or [Undo]: **7,15** enter

Specify next point or [Undo]: enter

Command: **A** enter

Specify start point of arc or [Center]: **7,15** enter

Specify second point of arc or [Center/End]: **c** enter

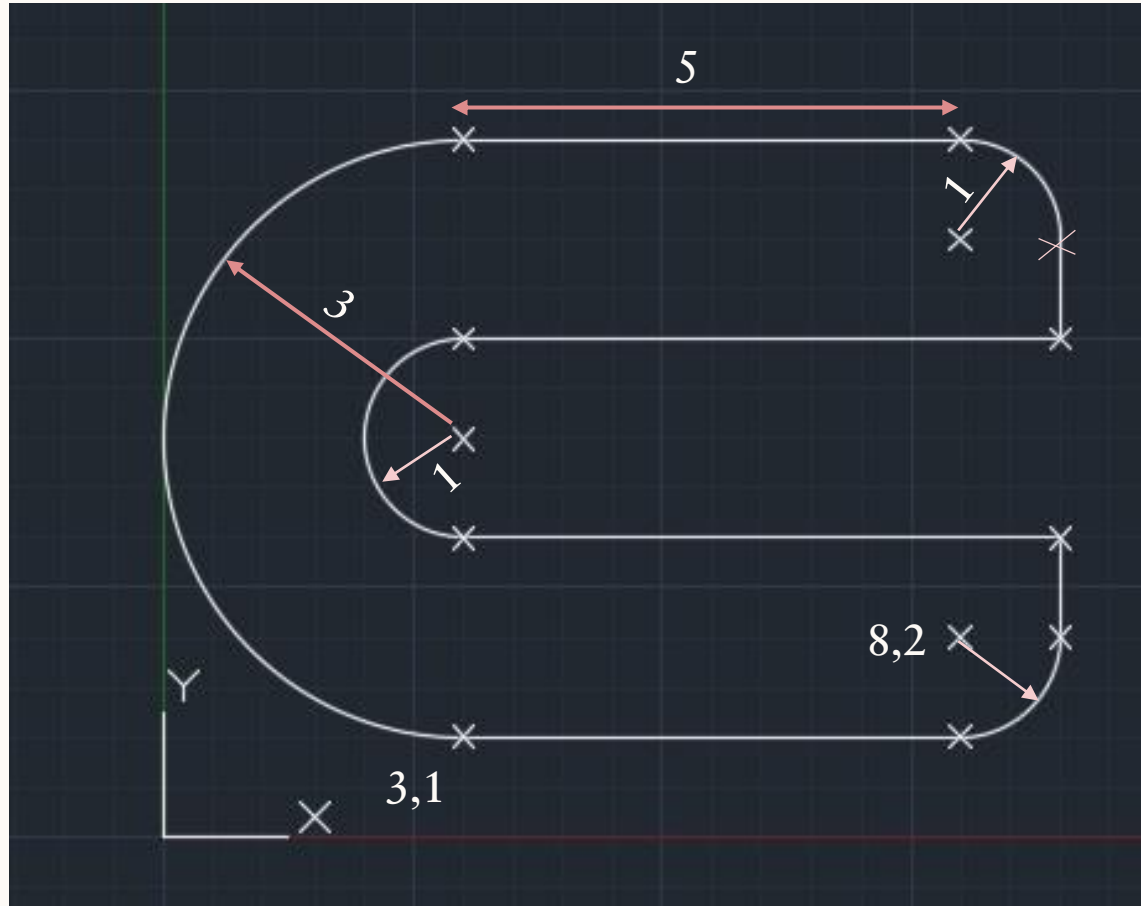
Specify center point of arc: **6,15** enter

Specify end point of arc (hold Ctrl to switch direction) or

[Angle/chord Length]: **a** enter

Specify included angle (hold Ctrl to switch direction): **180** enter

- H.W. Draw the figure below by using different options?



THANK YOU

