

# CONE command

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The **CONE** command is used to create a 3D solid cone.

## Command Access:

**Ribbon** : 3D > Modeling > Box > Cone

**Menu** : Draw > Modeling > Cone

**Command** : CONE

## Command Prompts:

Specify center point of base or [3P/2P/Ttr/Elliptical]:

## Function Description:

Create a 3D solid with a circle or an ellipse base. The 3D solid is symmetrical and conical, on the top all points get together at one point or one circle or ellipse plane. User could use the FACETRES system variable to control smoothness of 3D curve solid in shaded or hidden visible style. Users could create a frustum by specifying Top radius. At first, the default value of base radius has not been specified. During the operation, the previously inputted radius of base becomes its default value.

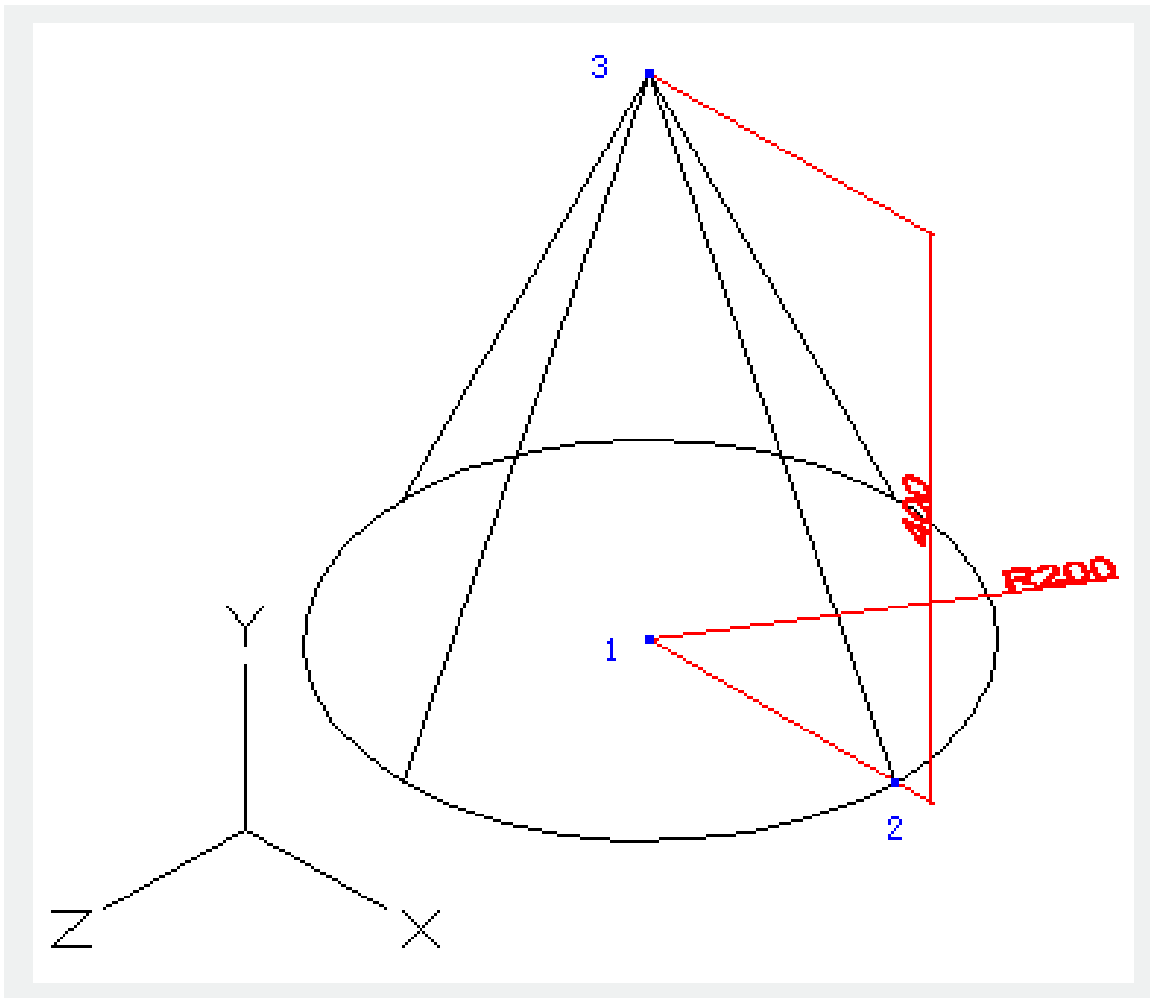
## Relative Glossary:

### Center point:

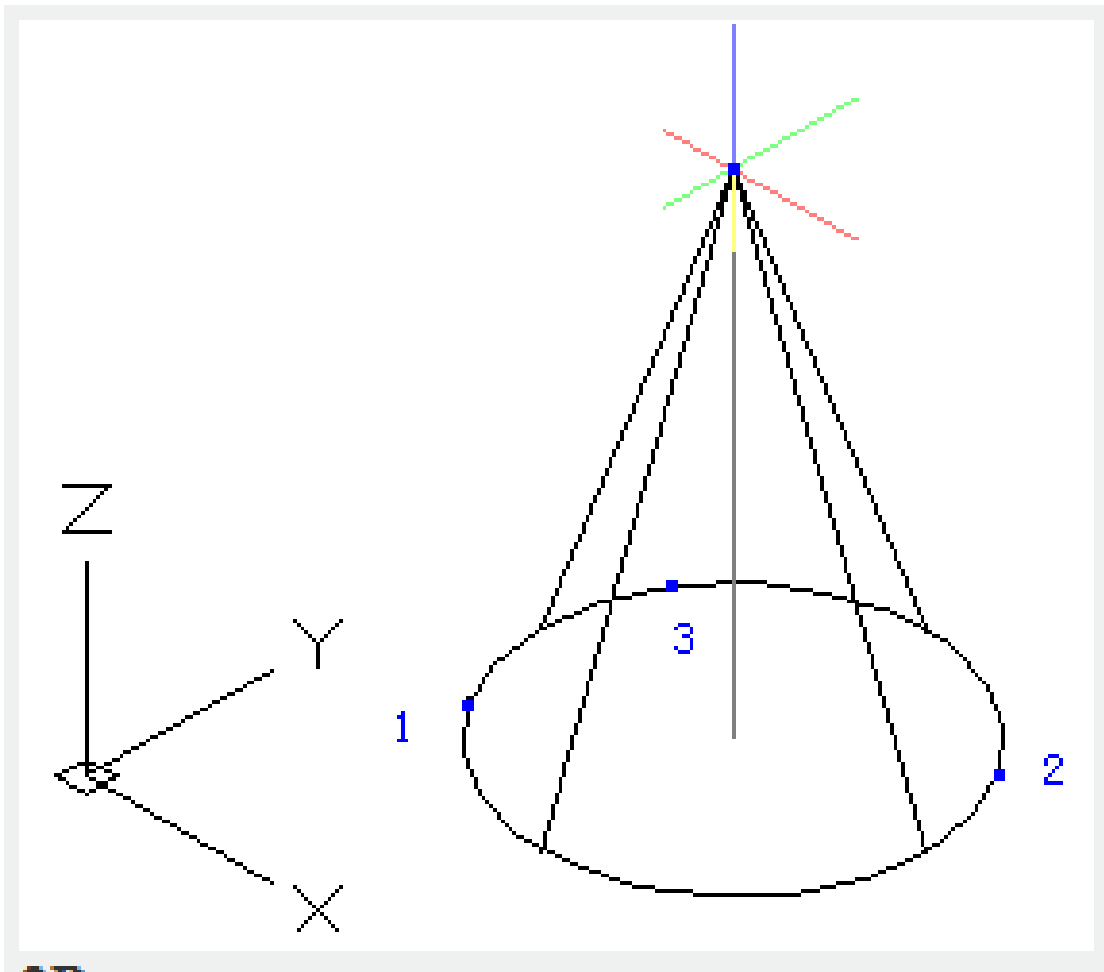
**2P** : Specify 2 points; the distance between the 2 points defines cone height.

**Axis endpoint** : Specify the endpoint of cone axis. The axis endpoint could be vertex of cone or vertex of frustum; as well it could be any place in 3D space. The axis endpoint defines the length and direction of the cone.

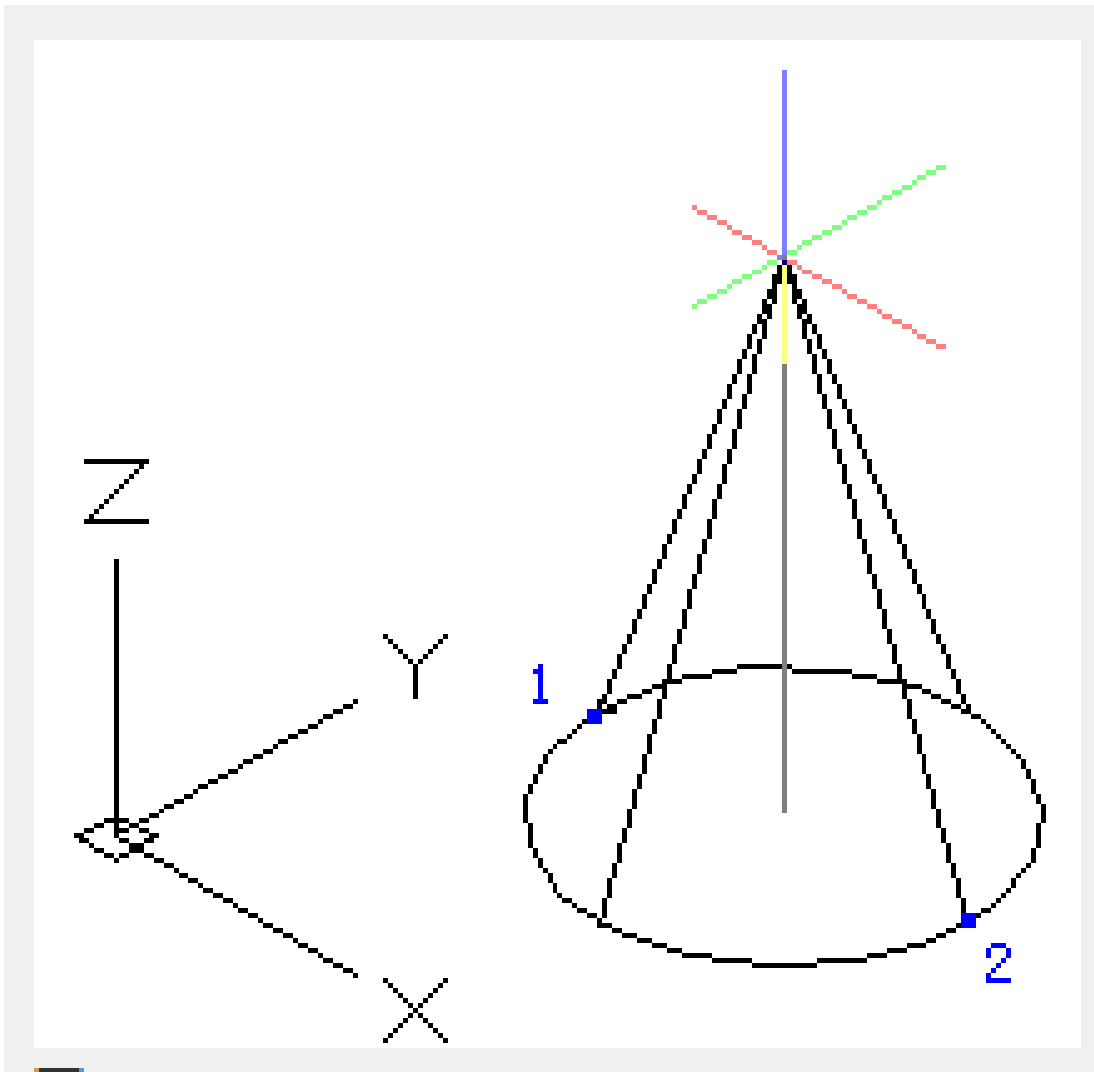
**Top radius** : Specify top radius of cone. At first, the default value of top radius has not been set; during the drawing session, the previously inputted radius of top radius becomes its default value.



3P : Define a cone base by 3 points

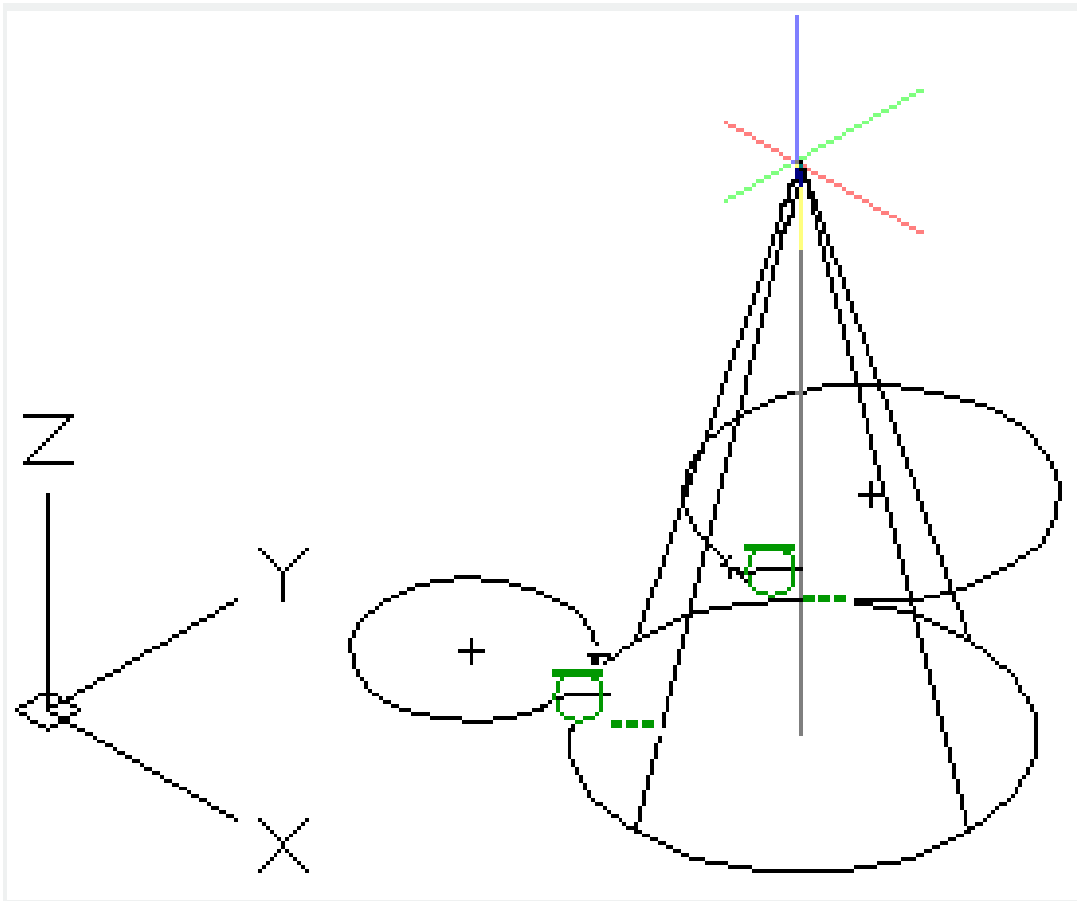


2P : Define a cone base diameter by 2 points.

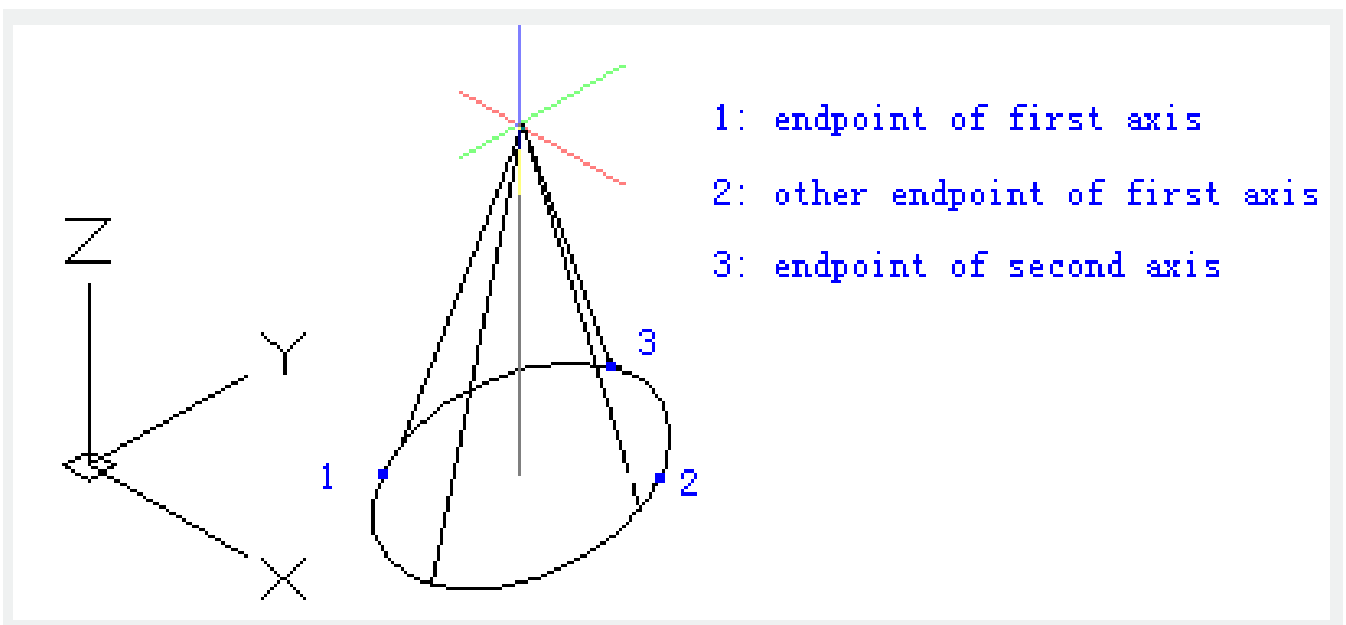


**Ttr** : Define a cone base by specified radius and two tangent objects.

There may be many objects satisfy specified conditions. It will create the cone base by specified radius and points of tangency that are nearest to selected point.

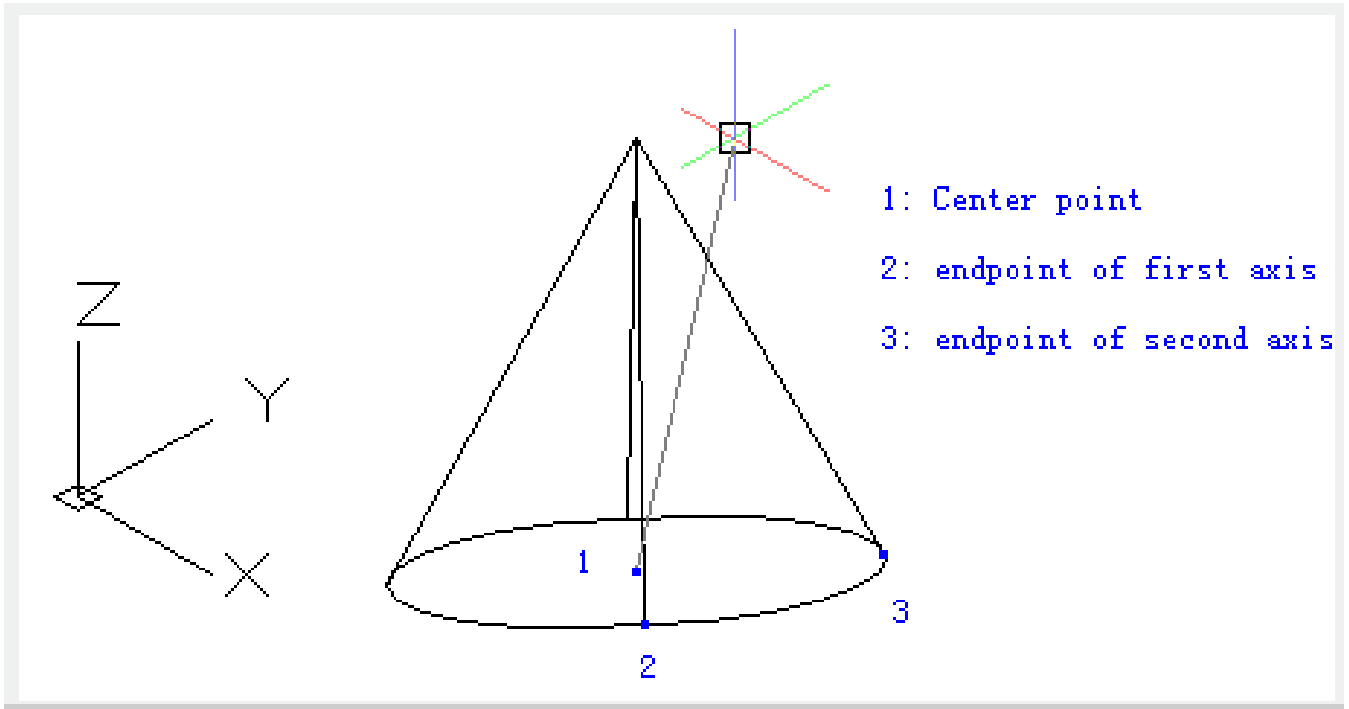


**Elliptical** : Specify ellipse base of cone.



- 1: endpoint of first axis
- 2: other endpoint of first axis
- 3: endpoint of second axis

**Center** : Create cone ellipse base by center point.



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