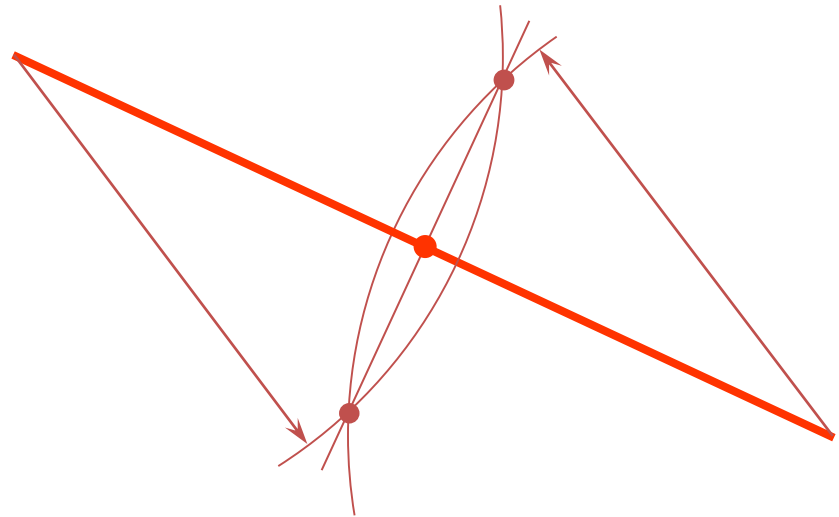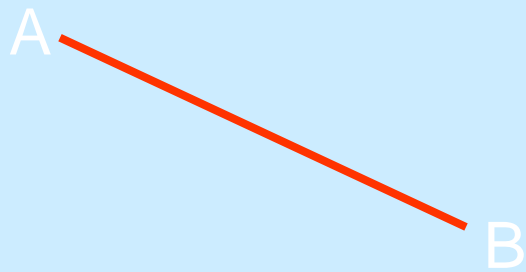# **Lecture 3** Applied Geometry Part-I

By Engr. Muhammad Arsalan Khan
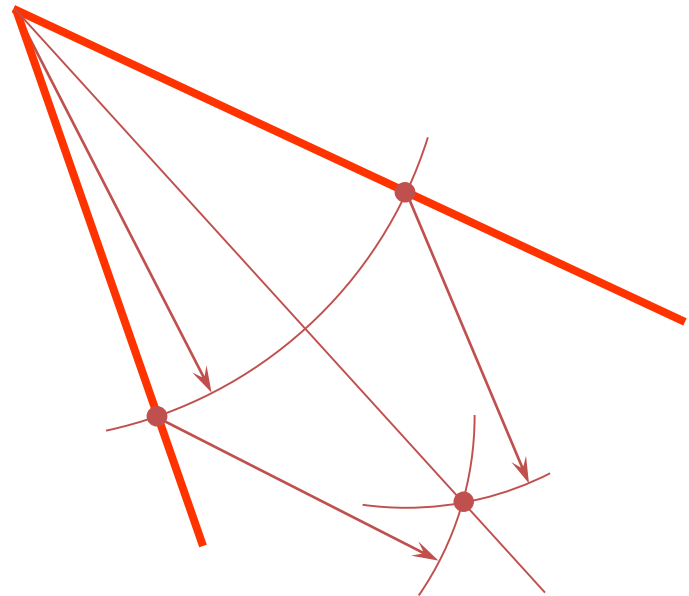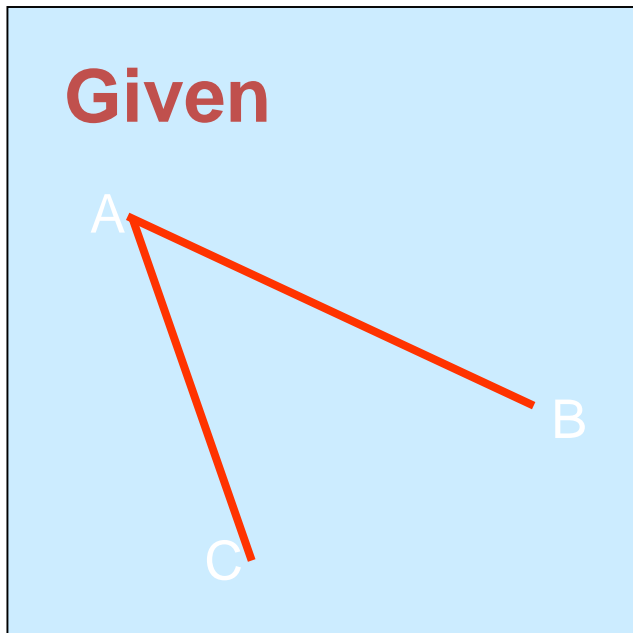
To Bisect a Line

Given

A

B

To Bisect an Angle

Given
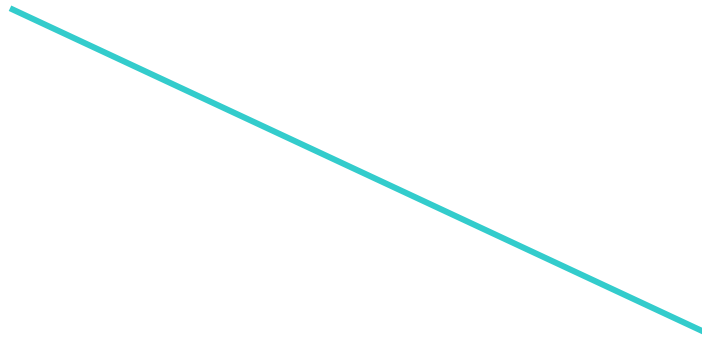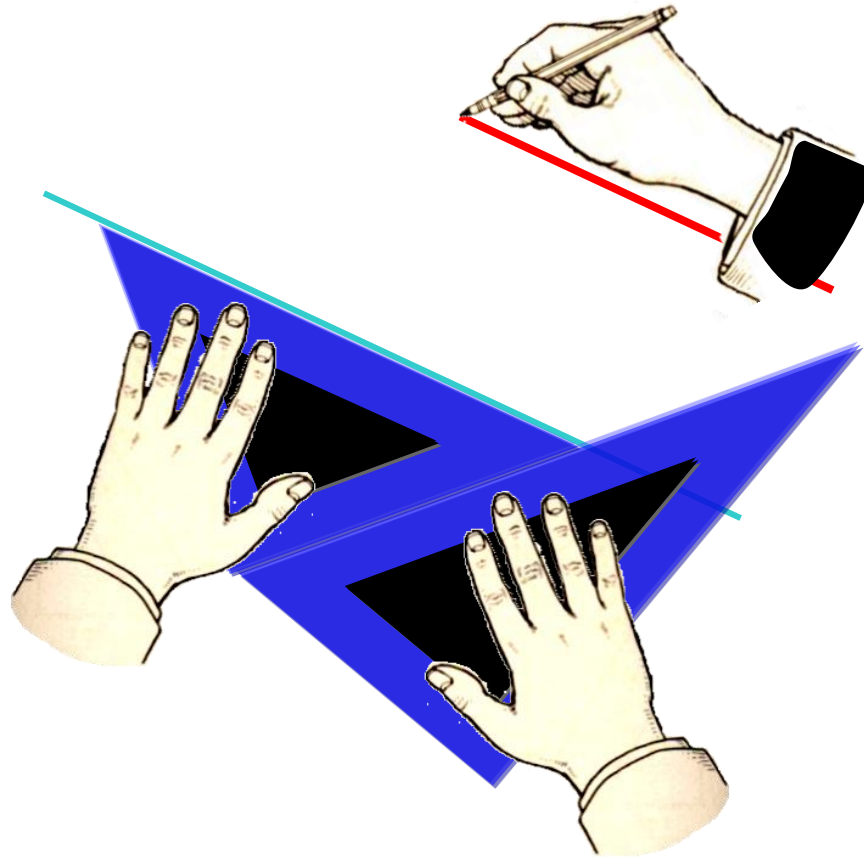
A

B

C

To draw the line parallel to a given line and passes through a given point

Given

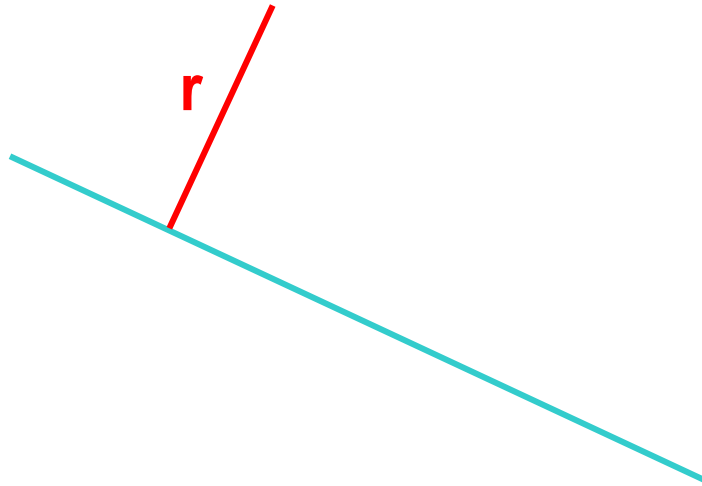# To draw the line parallel to a given line and passes through a given point
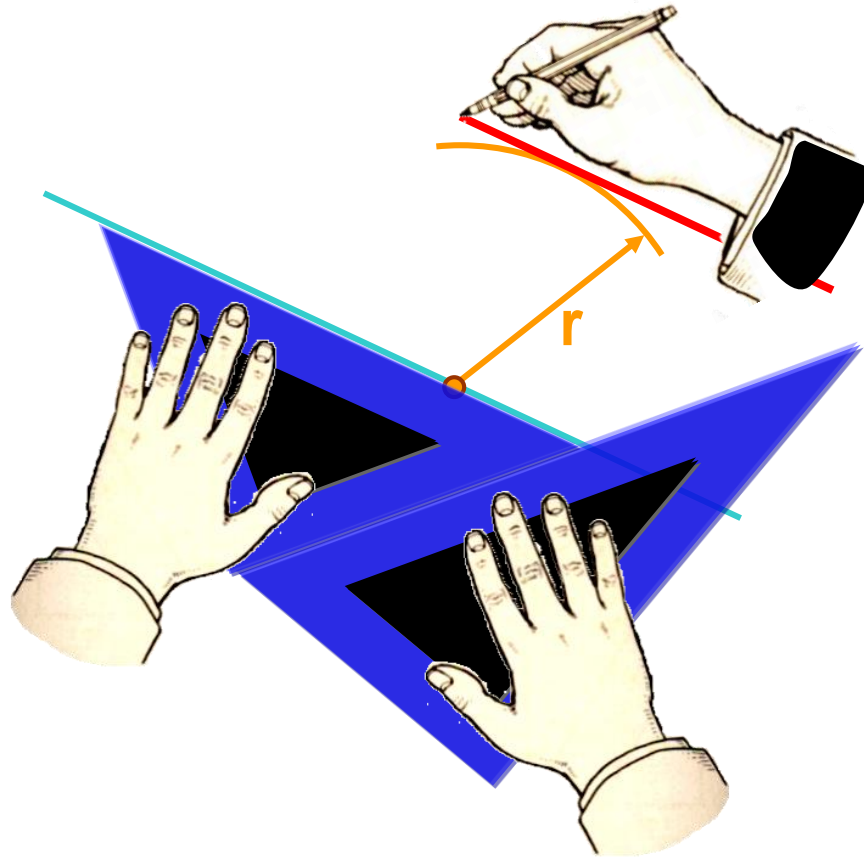
Given

To draw the line parallel to a given line with a specified distance

Given distance = r

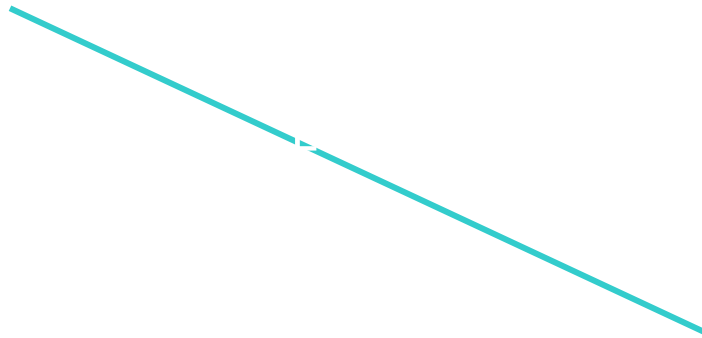# To draw the line parallel to a given line with a specified distance
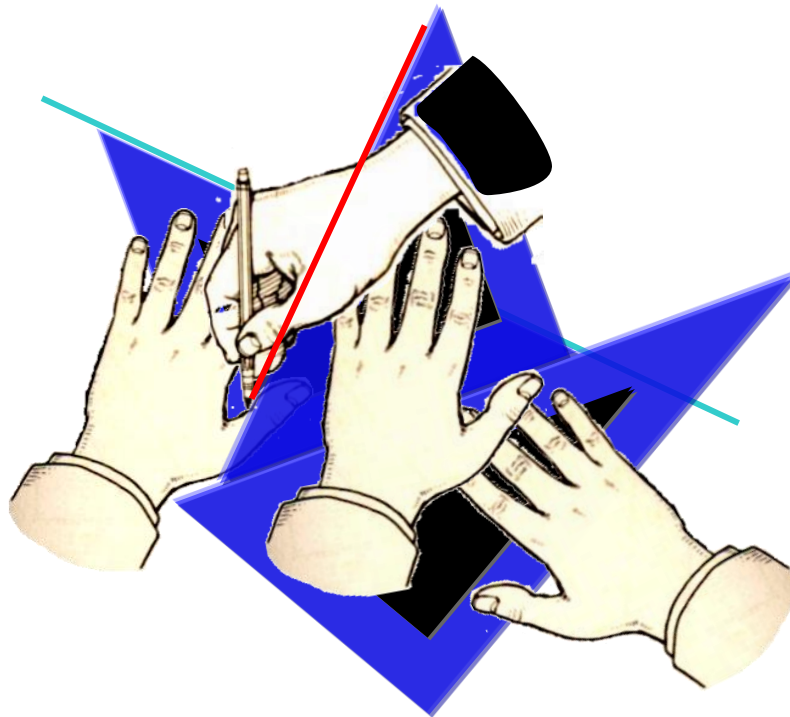
Given distance = r

r

To draw the line perpendicular to a given line at a given point

Revolve method

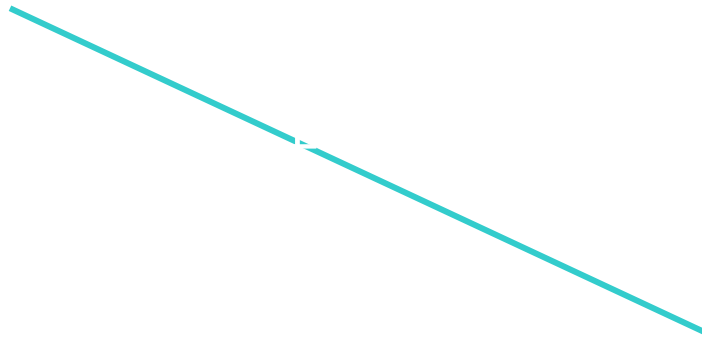# To draw the line perpendicular to a given line at a given point
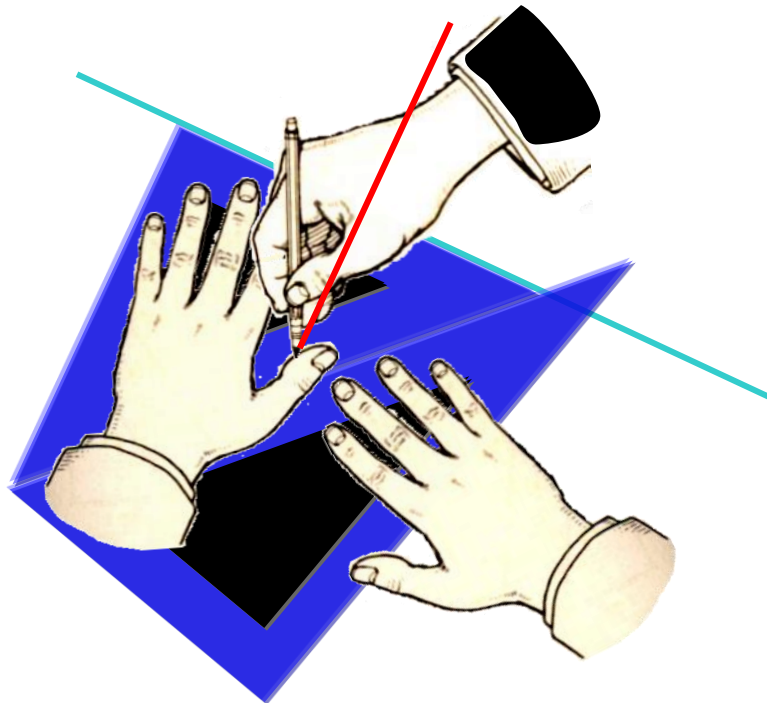
Revolve method

To draw the line perpendicular to a given line at a given point

Adjacent-sides method

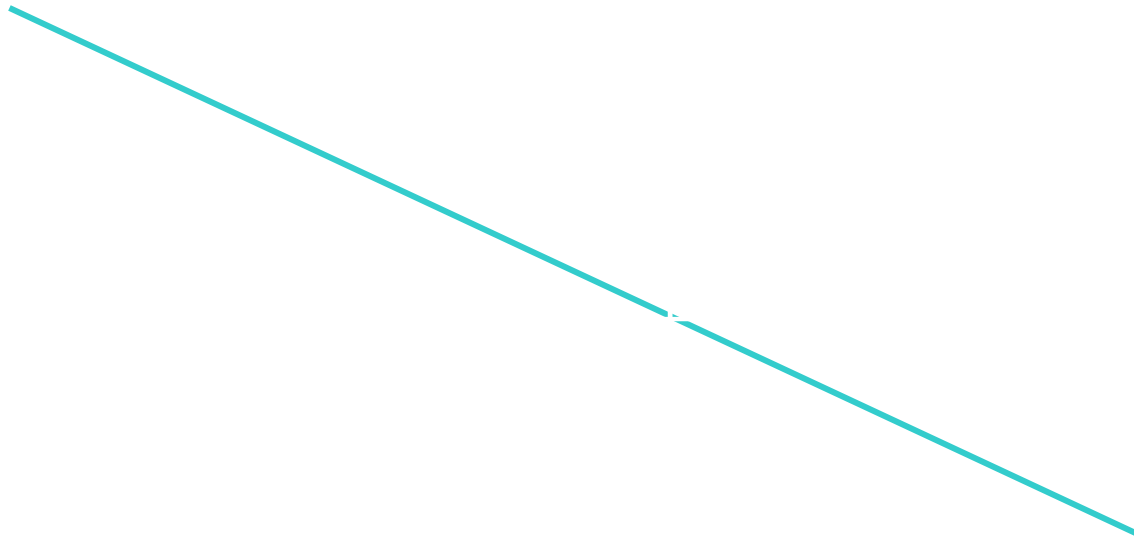# To draw the line perpendicular to a given line at a given point
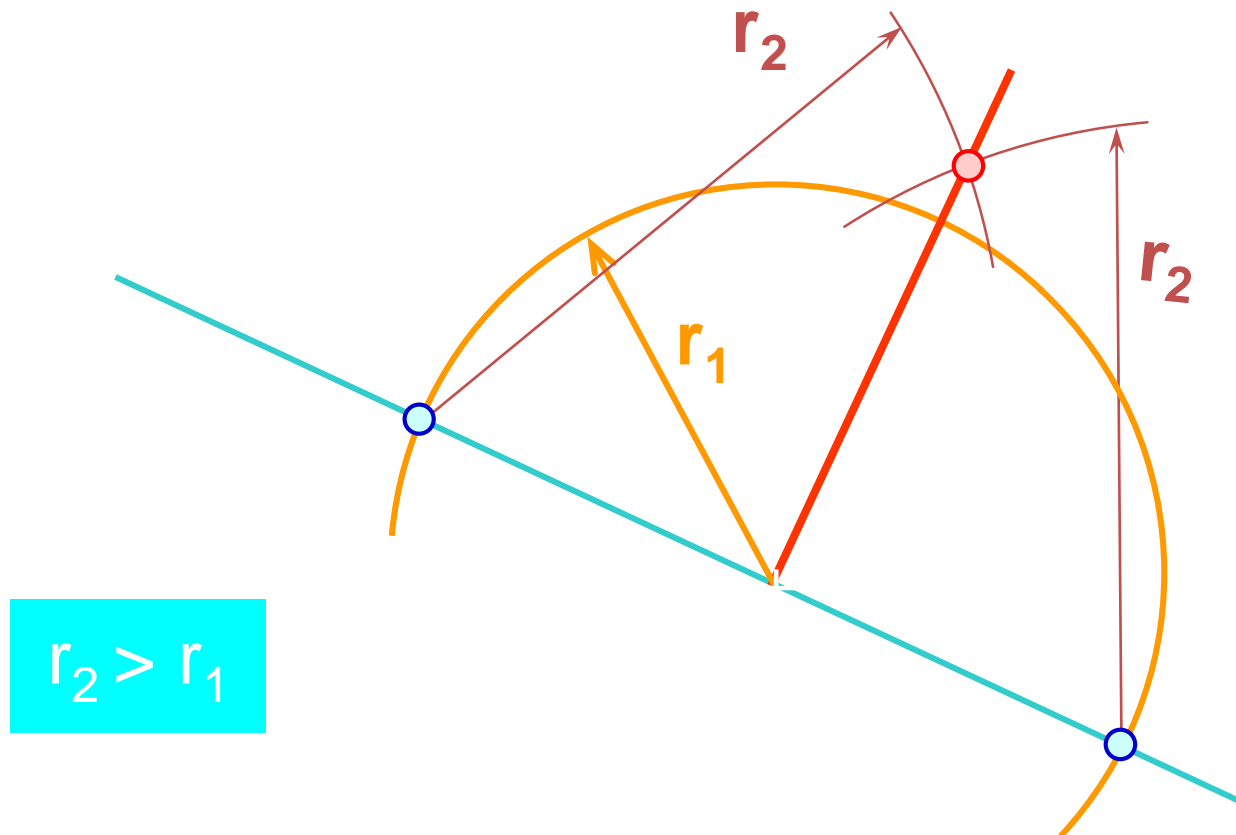
Adjacent-sides method

To draw the line perpendicular to a given line at a given point

Using Compass

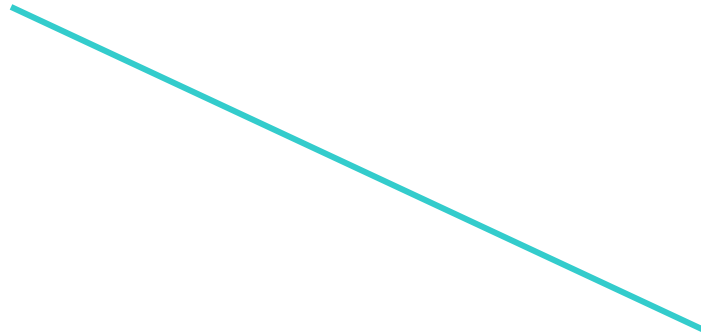# To draw the line perpendicular to a given line at a given point

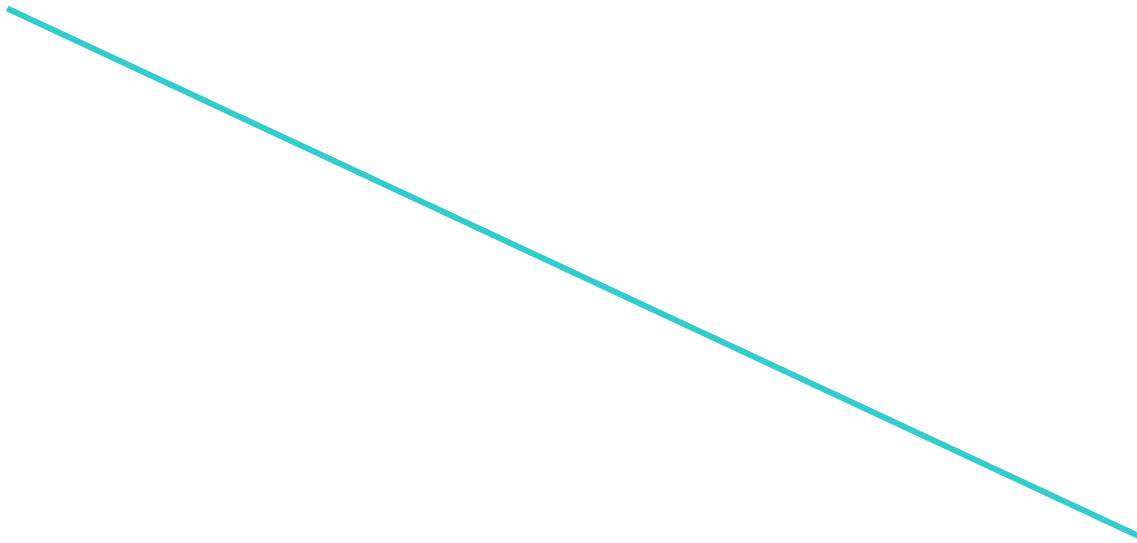## Using Compass

r_2

r_1

r_2

$r_2 > r_1$

To draw the line perpendicular to a given line from a point not on the line
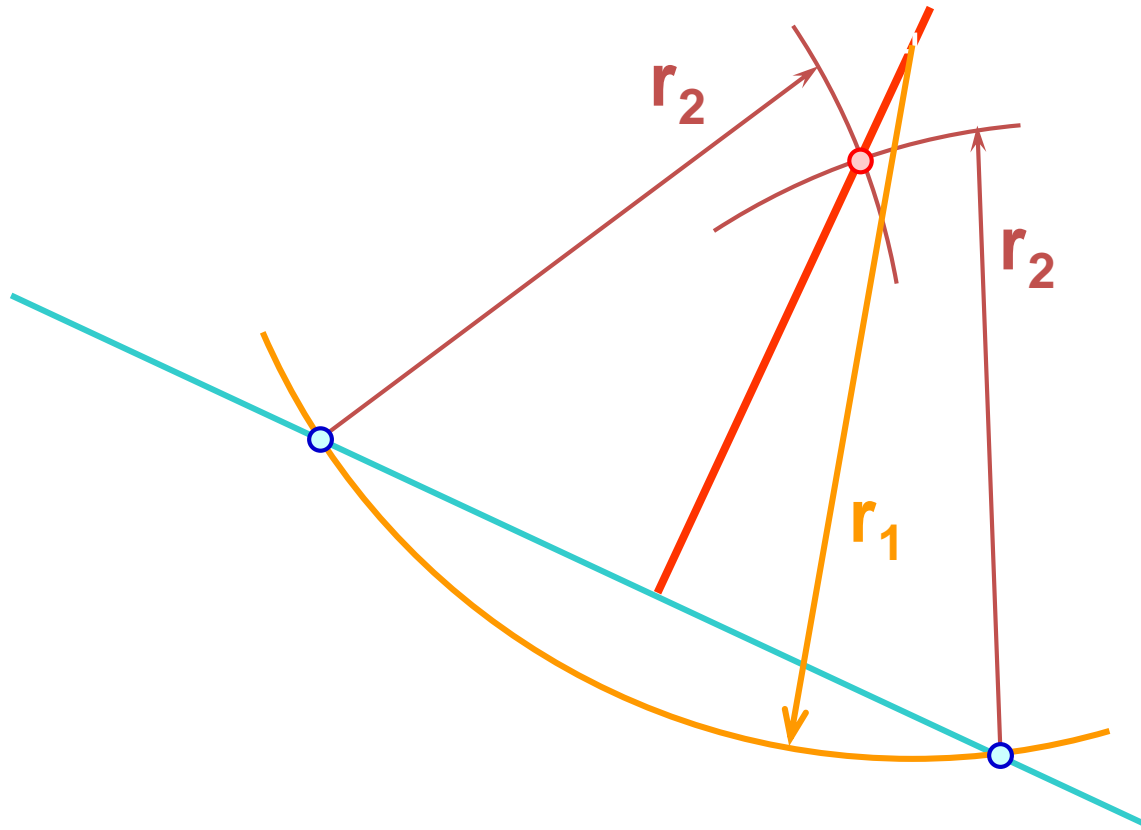
Adjacent-sides method

To draw the line perpendicular to a given line from a point not on the line

Using compass

To draw the line perpendicular to a given line from a point not on the line

Using compass

r_2

r_2

r_1

Practise

**Assignment Exercise Examples
1,2,3,6,8,10,11,13,16**