

Compass  
and  
Straightedge  
Constructions



## Compass Constructions

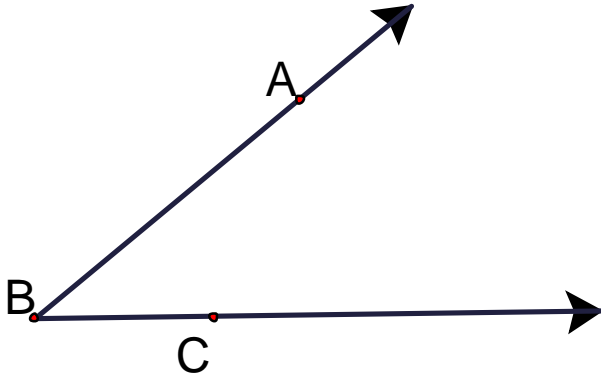
Construct a copy of given segment.



Directions:

## Compass Constructions

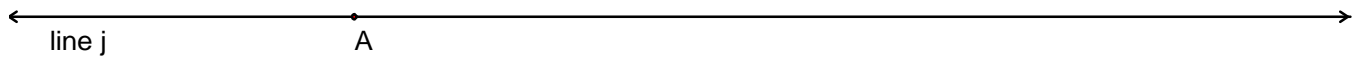
Construct a copy of the given angle.



Directions:

## Compass Constructions

Construct a perpendicular line from a point on the line.

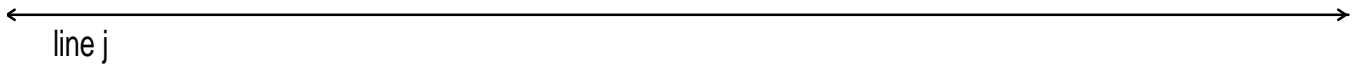


Directions:

## Compass Constructions

Construct a perpendicular from a point NOT on the line.

A



Directions:

## Compass Constructions

Construct the perpendicular bisector of the given segment.



Directions:

## Compass Constructions

Construct a line parallel to a given line through a given point using the rhombus method.

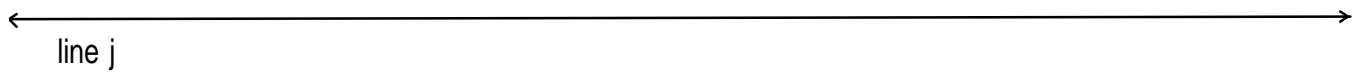


Directions:

## Compass Constructions

Construct a line parallel to a given line through a given point using the corresponding angle method.

A

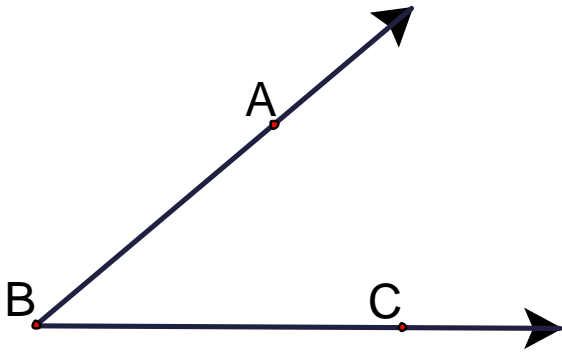


Directions:



## Compass Constructions

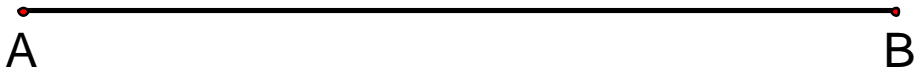
Bisect the given angle.



Directions:

## Compass Constructions

Divide the given segments into "n" congruent parts.



Directions:

## Compass Constructions

Construct an isosceles trapezoid.

Directions:

## Compass Constructions

Construct a parallelogram.

Directions:

## Compass Constructions

Construct a rectangle.

Directions:

## Compass Constructions

Construct a kite.

Directions:

## Compass Constructions

Construct a rhombus.

Directions:

## Compass Constructions

Construct a square.

Directions:



## Compass Constructions

Construct an equilateral triangle.

Directions:

## Compass Constructions

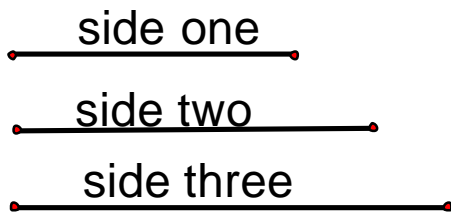
Construct an isosceles triangle.

Directions:

## Compass Constructions

Side-Side-Side

Given three sides, construct a triangle.

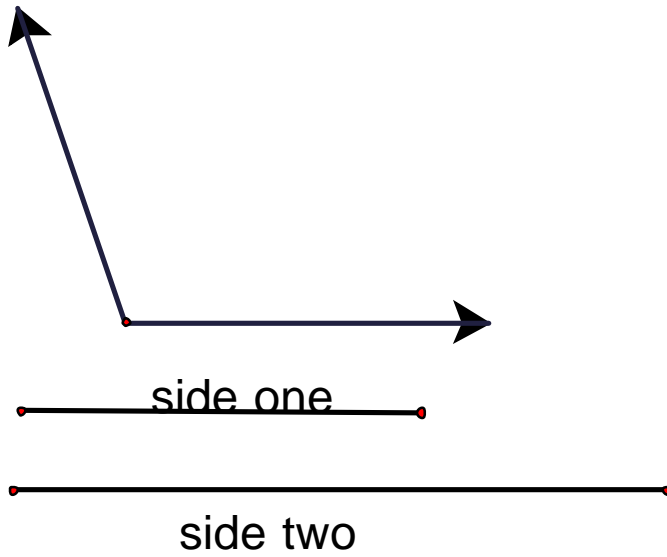


Directions:

## Compass Constructions

Side –Angle—Side

Given two sides and the angle they include, construct a triangle.

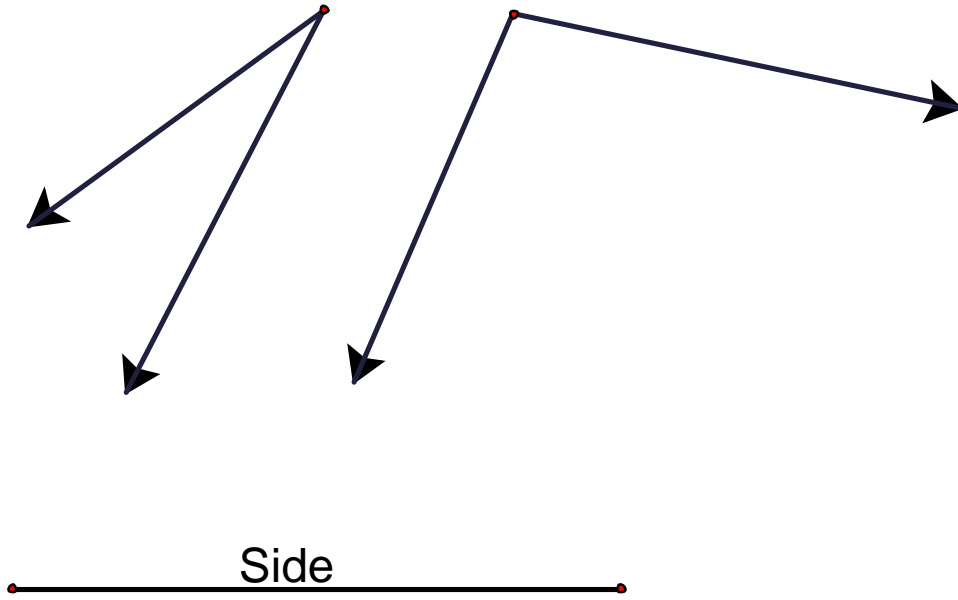


Directions:

## Compass Constructions

Angle--Side --Angle

Given two angles and the side they include, construct a triangle.

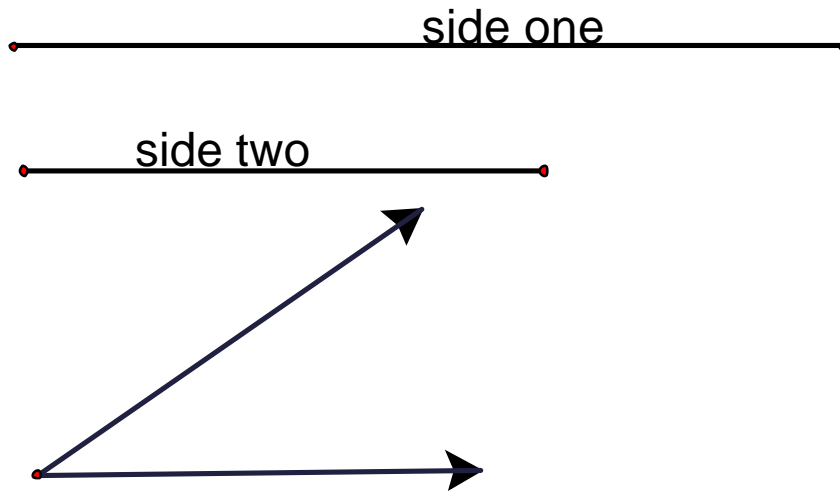


Directions:

## Compass Constructions

### Side Side Angle

Given two sides and the NON-included angle, show that two different non-congruent triangles are possible.



Directions:

## Compass Constructions

Construct a regular hexagon.

Directions:

## Compass Constructions

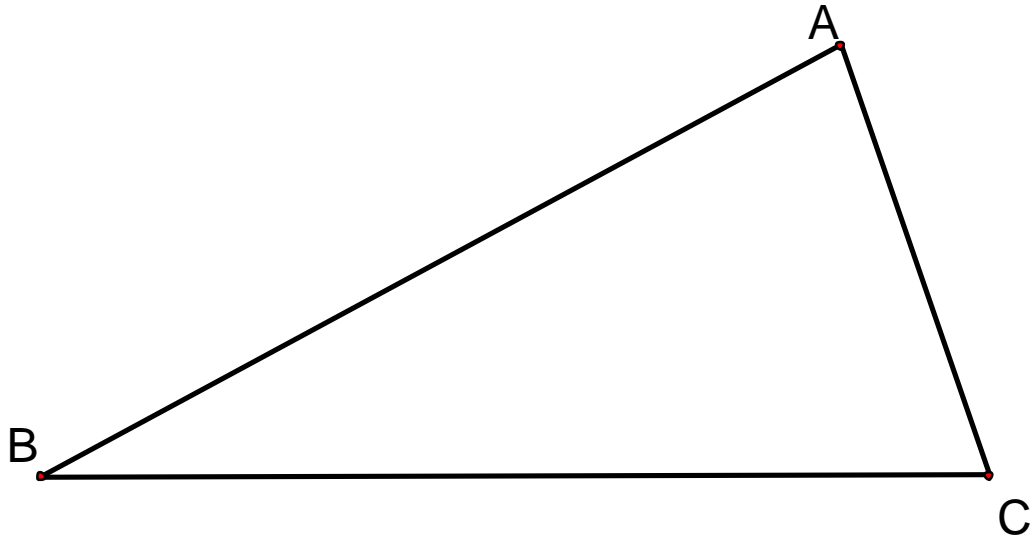
Construct a regular pentagon.

Directions:



## Compass Constructions

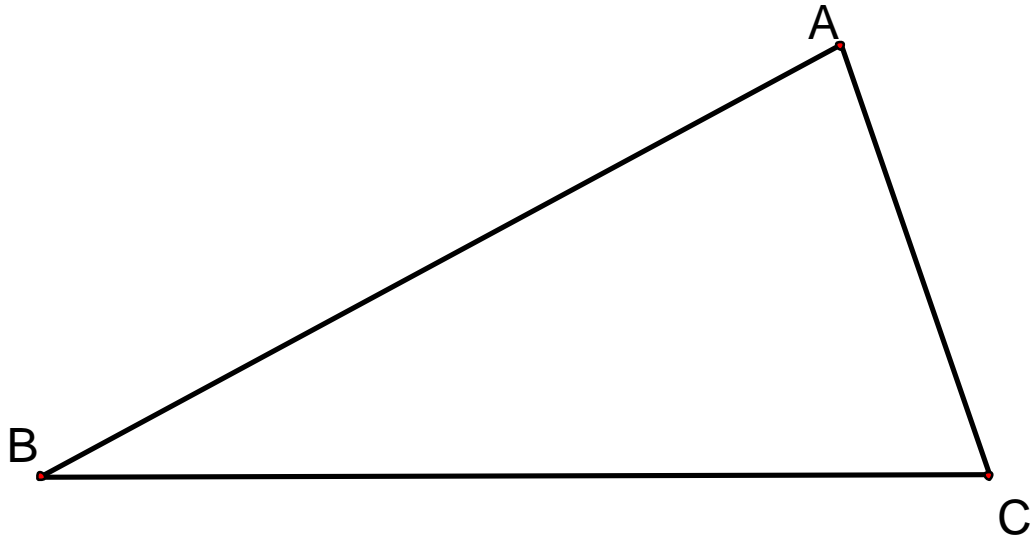
Construct the altitudes of the given triangle.



Directions:

## Compass Constructions

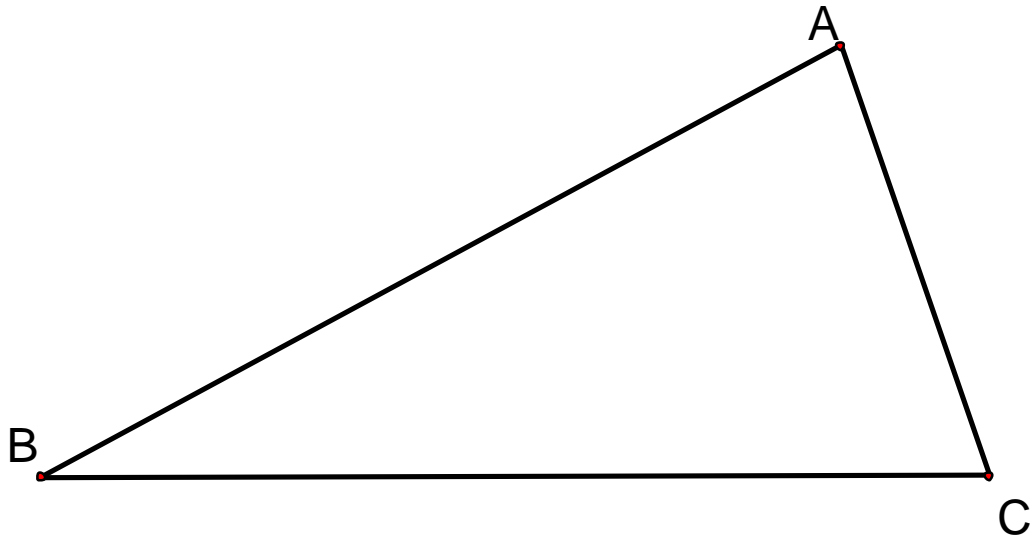
Construct the medians of the given triangle.



Directions:

## Compass Constructions

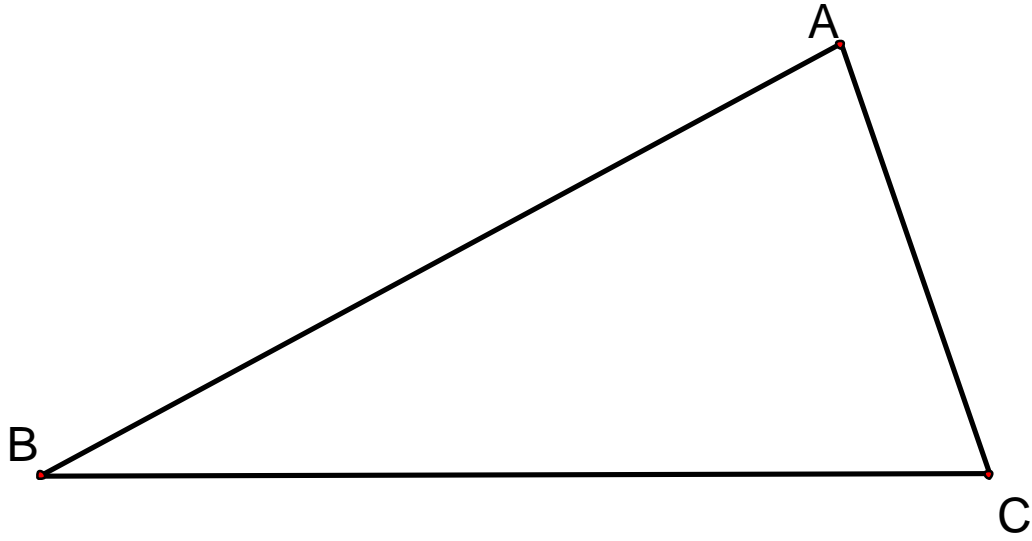
Construct the perpendicular bisectors of all three sides of the given triangle.



Directions:

## Compass Constructions

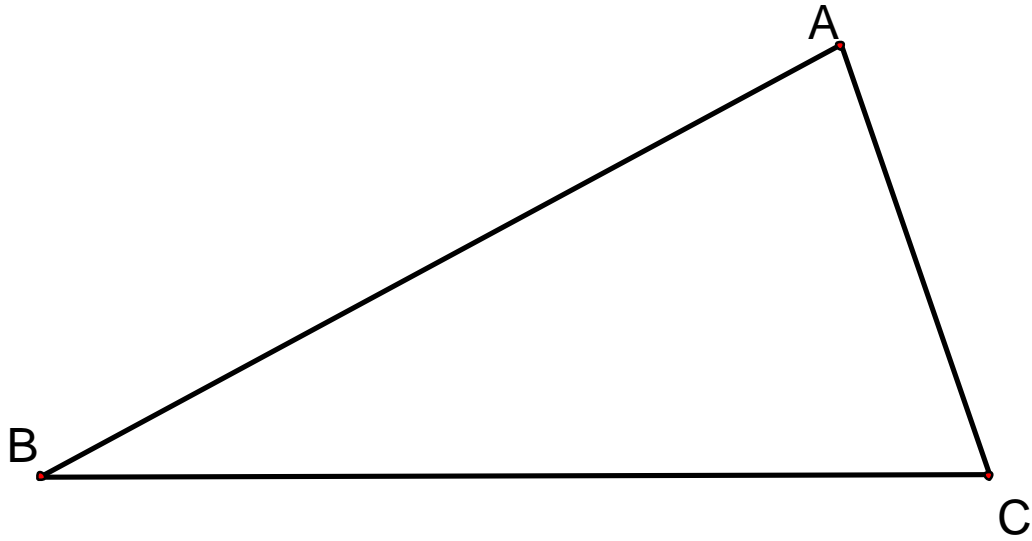
Construct the angle bisectors of all three angles of a given triangle.



Directions:

## Compass Constructions

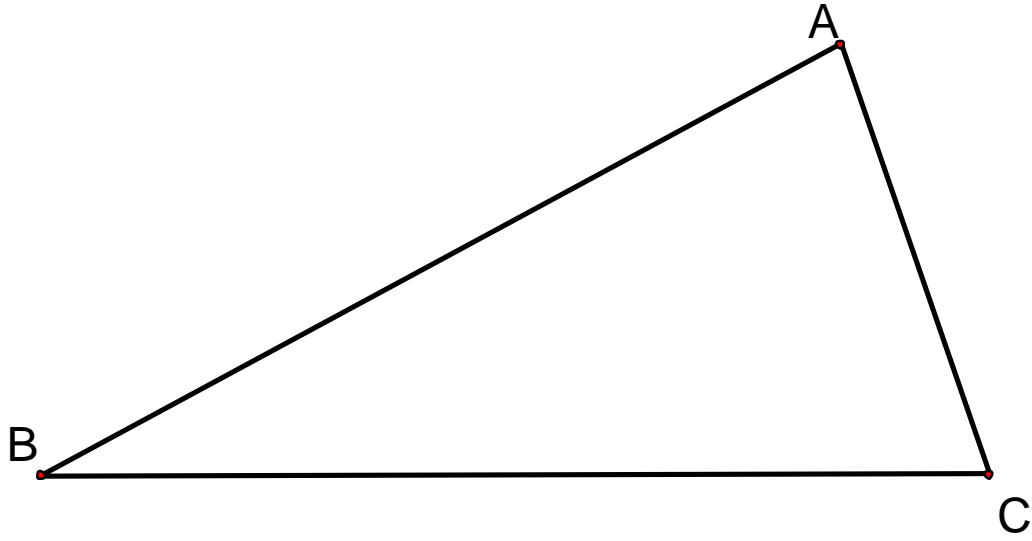
Construct the incenter and the incircle of a given triangle.



Directions:

## Compass Constructions

Construct the circumcenter and the circumcircle of the given triangle.



Directions: