ASSIGNMENT 05

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- **Question 2.50:**

  Construct a KITE EASY $AY = 8cm$, $EY = 4cm$ and $SY = 6$:

- **Solution:**

  Given,

  $AY = 8cm$, $EY = 4cm$ and $SY = 6$

  Now,

  Steps of Construction are:

1: Draw a line AY=8cm.

2: Draw PQ, the perpendicular bisector of AY such that it meets AY at O.

3: We can't locate a point E on PQ at 4cm from Y and A, i.e. EY=4cm=EA is not possible only when E and O coincide. In that case the KITE doesn't exist.

- **Question 2.51:**

  Draw a circle of diameter 6.1:

- **Solution:**

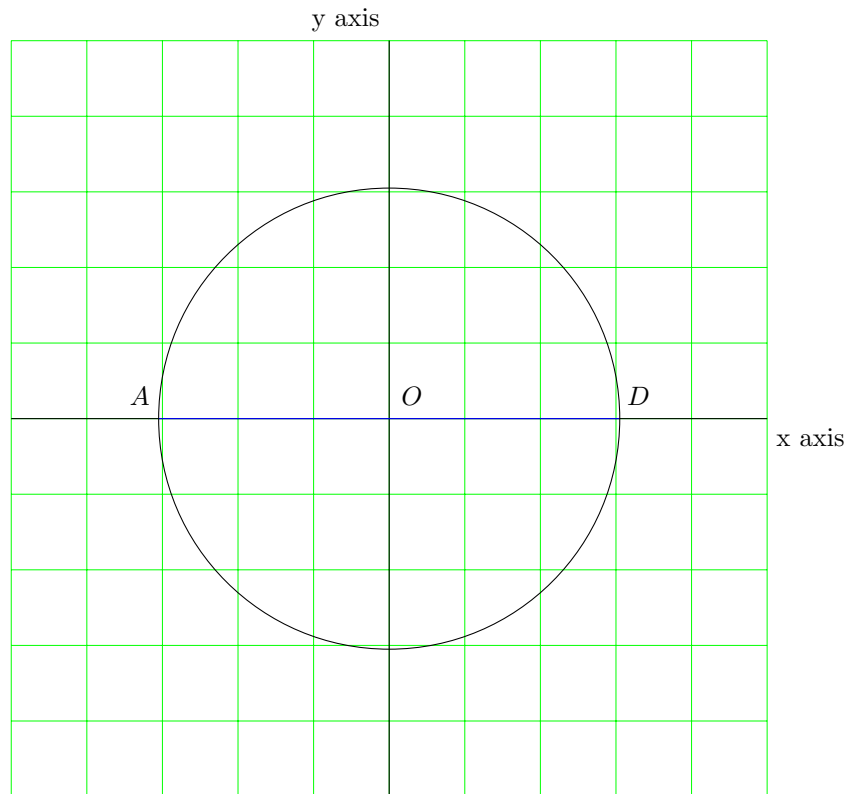 we're given with the diameter of circle,

  $$D = 6.1$$

  Or, $$radius = r = 6.1/2 = 3.05$$

  Steps of Construction:

  1: Taking a fixed point(say O) as center.

  2: Draw a circle of radius 3.05.

  3: We'll get the circle of required diameter.

From the construction required circle is given below:

y axis

x axis

$AD = 6.1cm$ *is the diameter of a Circle.*