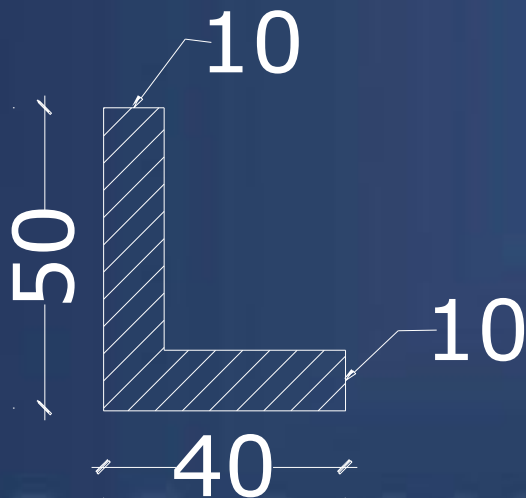


Problem No.1:

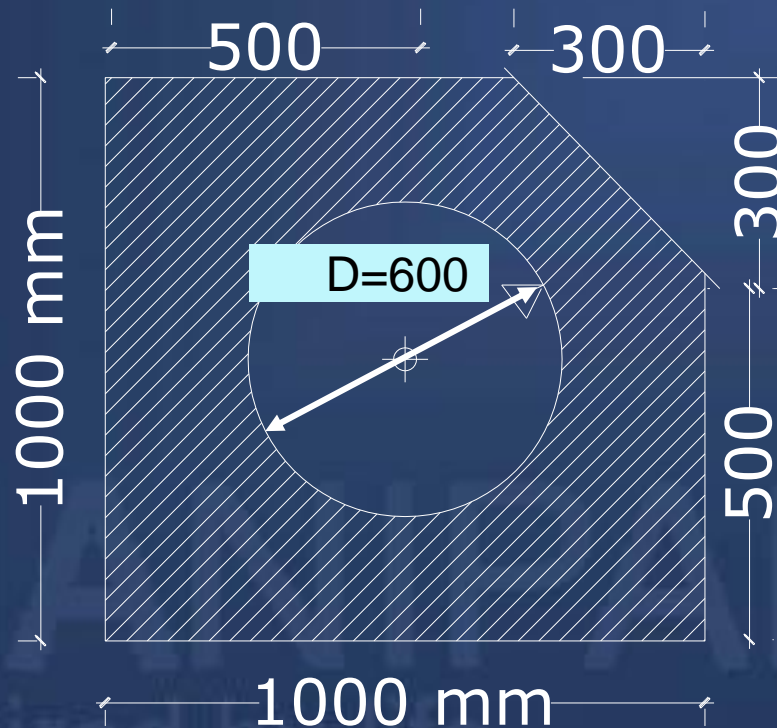
Locate the centroid of the shaded area shown



Ans: $\bar{x}=12.5$, $\bar{y}=17.5$

Problem No.2:

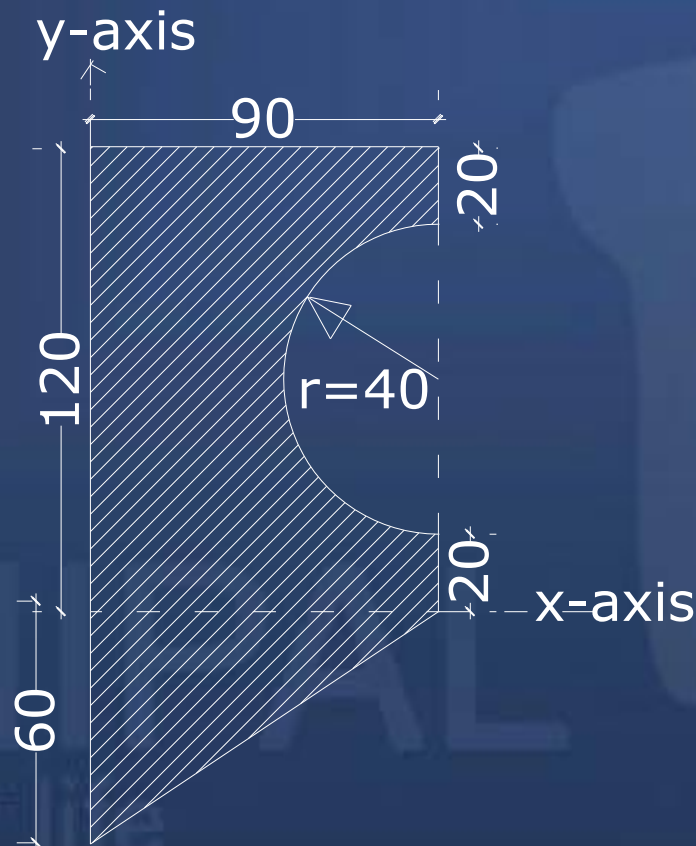
Locate the centroid of the shaded area shown



2
Ans: $\bar{x}=474\text{mm}$, $\bar{y}=474\text{mm}$

Problem No.3:

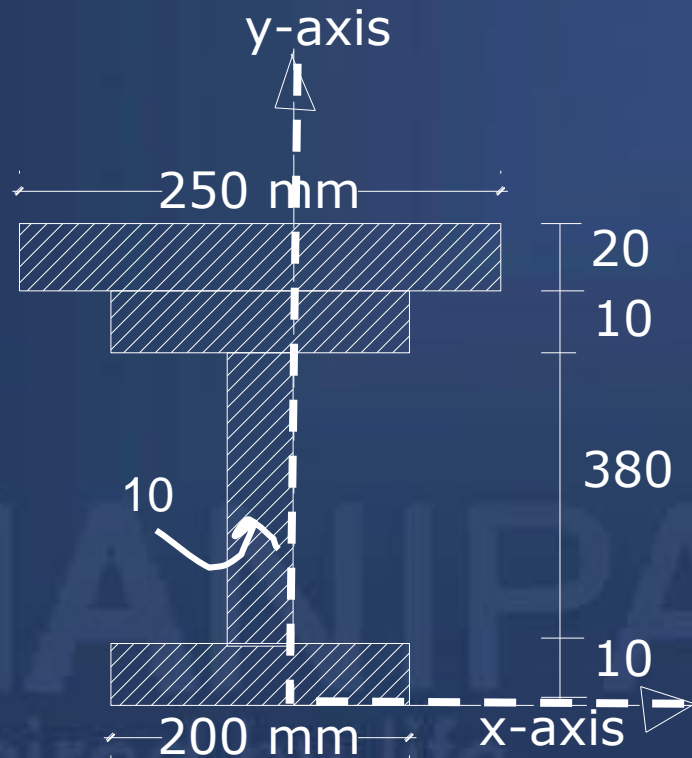
Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x}=34.4$, $\bar{y}=40.3$

Problem No.4:

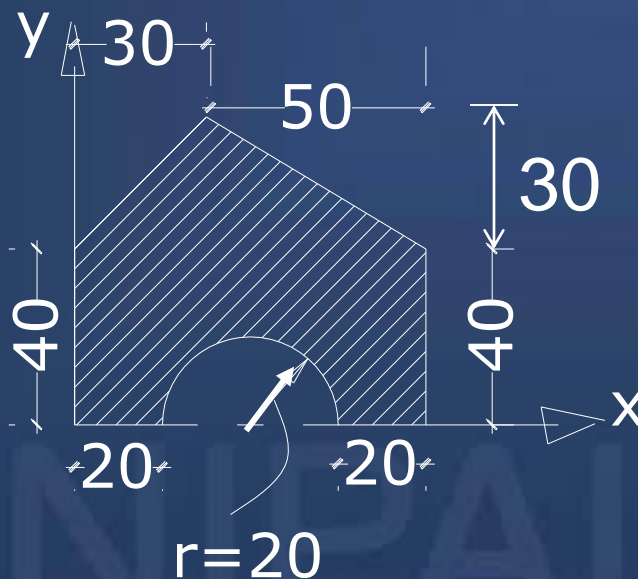
Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x} = -5\text{mm}$, $\bar{y} = 282\text{mm}$

Problem No.5

Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x} = 38.94, \bar{y} = 31.46$

Problem No.6

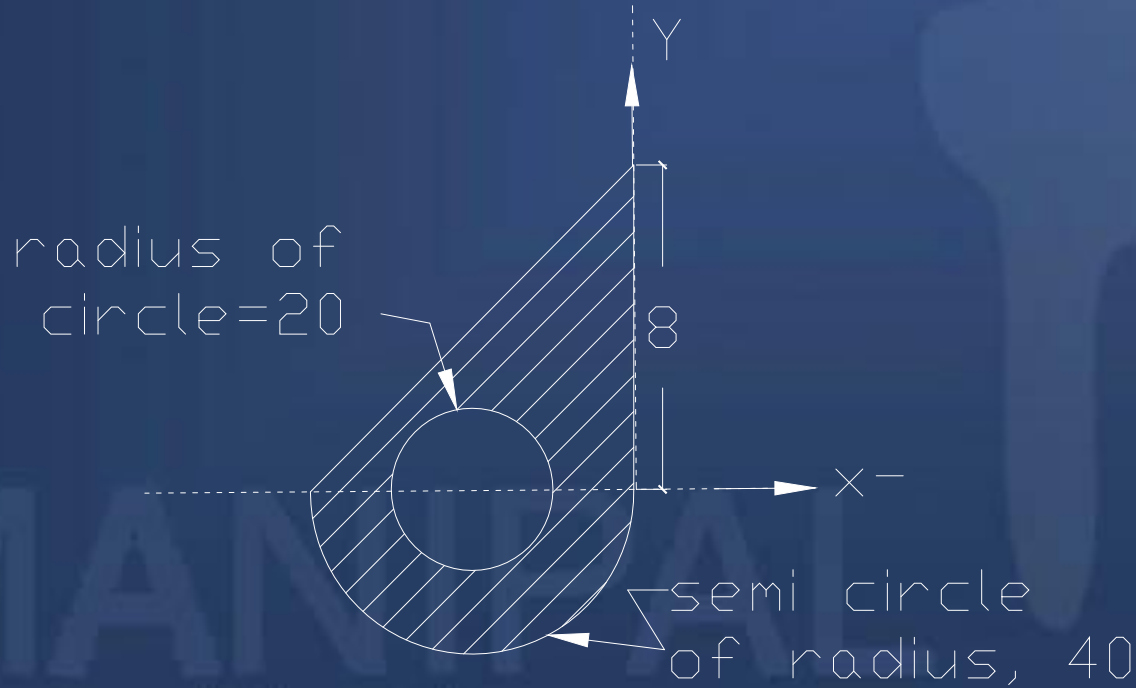
Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x} = 0.317$, $\bar{y} = 0.24$

Problem No.7

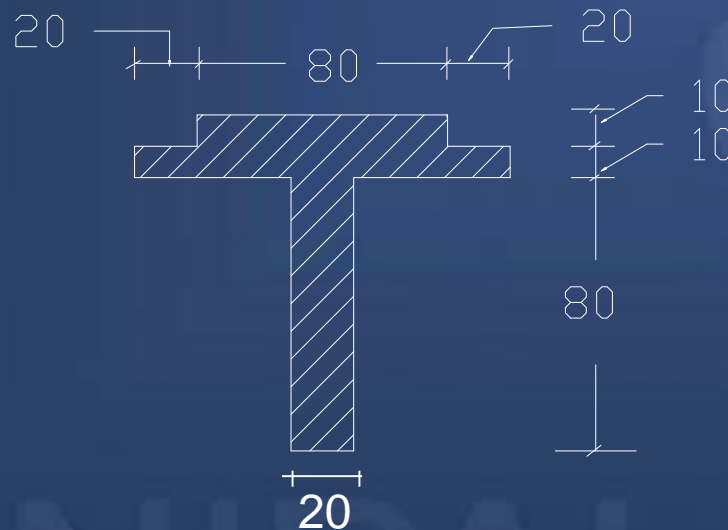
Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x} = -30.43$, $\bar{y} = +9.58$

Problem No.8

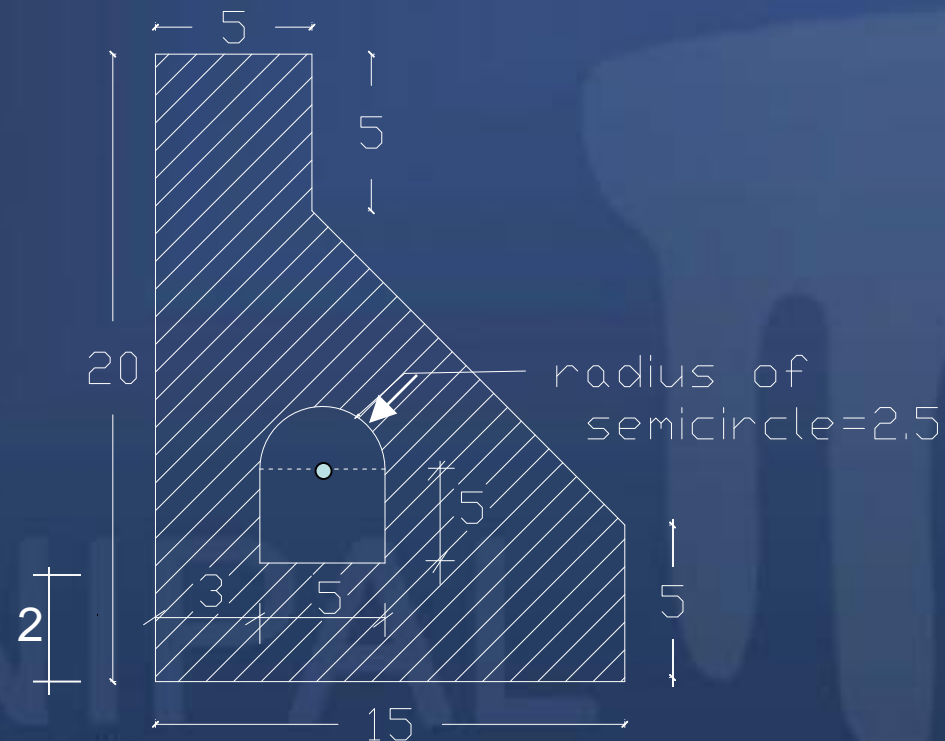
Locate the centroid of the shaded area.



Ans: $\bar{x} = 0$, $\bar{y} = 67.22$ (about base)

Problem No.9

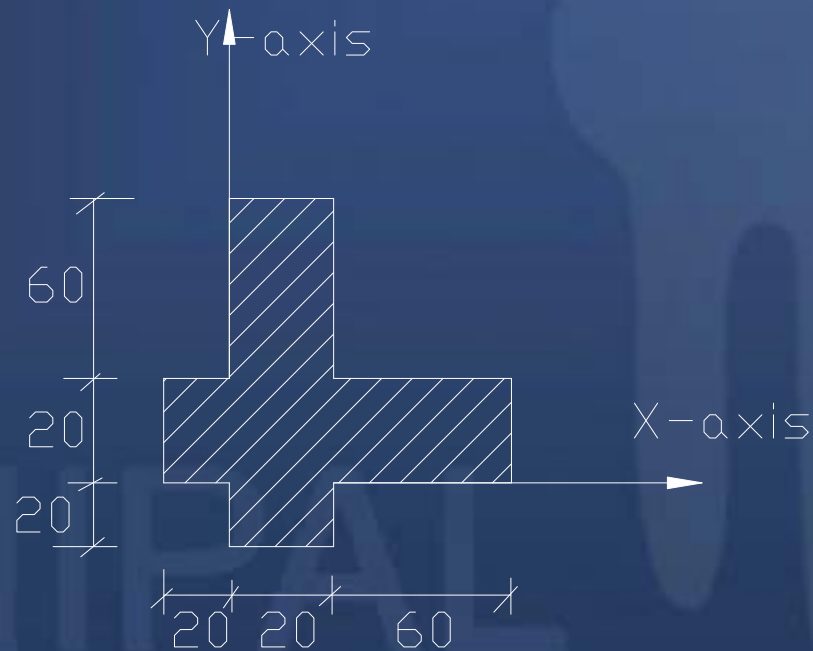
Locate the centroid of the shaded area w.r.t. to the base line.



Ans: $\bar{x}=5.9$, $\bar{y}= 8.17$

Problem No.10

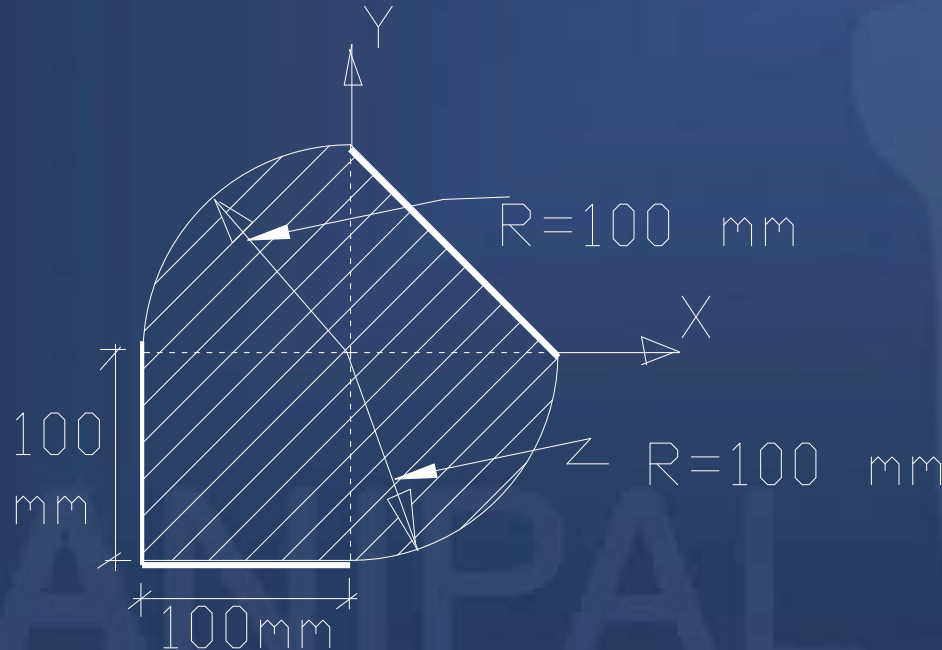
Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x}=21.11$, $\bar{y}= 21.11$

Problem No.11

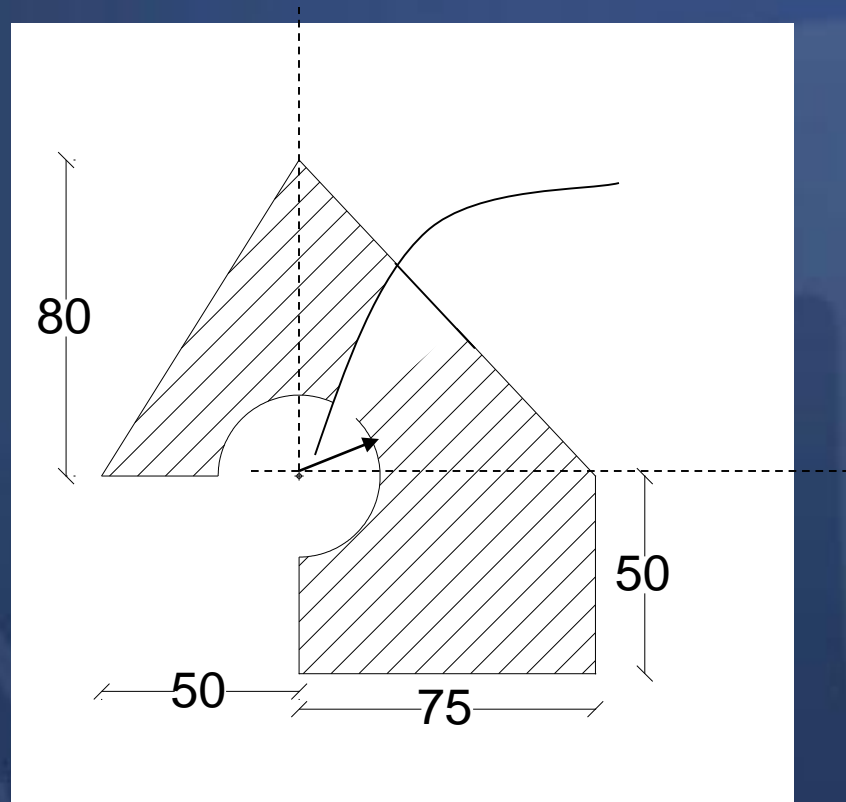
Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x} = \bar{y} = 22.22$

Problem No.12

Locate the centroid of the shaded area w.r.t. to the axes shown



Ans: $\bar{x} = 24.33$ $\bar{y} = 4.723$